

I am now preparing to lead an advance party through Austria Sound, toward Cape Fligely, and will endeavor to obtain as accurate and full meteorological data as possible, a copy of which I will forward to you at the earliest possible moment.

Local time has been used in all cases of observations thus far, and in that connection I have also located position as accurately as possible to be obtained, much of the time in fog and ice.

In an accompanying letter of August 3, at the same place, Mr. Baldwin says:

We have decided to attempt to make our northing from this point, and as the *Fritjof* will soon leave us in pursuit of walrus, I have no alternative left but to give you an earnest of my intention. * * * We will have a long, hard pull for the next year, but when we hear from our friends a year hence, it will make up for all the hardships. Papers and letters sent to us in care of our Agent at Tromsøe, Norway, Consul Andrew Aagaard, should be posted about May 1, 1898. He will forward same by next year's steamer.

I suppose by the time we return you will have established several stations in Cuba.

RECENT EARTHQUAKES.

Prof. E. W. Morley, of Adelbert College, Cleveland, Ohio, reports that no seismic disturbance was recorded on his seismometer during August and September. Prof. C. F. Marvin reports the same with regard to the seismograph at the Weather Bureau in Washington.

Sunday, August 14, at Oak Point and several other places on the St. John River, N. J. The first shock was felt at 3:45 a. m., St. John local time, viz, about 3:09 a. m., seventy-fifth meridian time. The second shock was felt at about 3:50 a. m., local, or 3:14 seventy-fifth time. [1 p. m., St. John local time, is simultaneous with 12:24:16, seventy-fifth meridian time.] The shocks were preceded by a noise, and the first shock was sufficiently strong to overturn light objects and awaken people. It seems to have been felt most at Oak Point and vicinity (N. 45° 30', W. 66° 05').

Friday, September 16, Mr. T. B. A. Watson, of Hartington, Nebr., writes that at 3:59 a. m. (central time) a slight earthquake shock was felt at this place (Cedar County, N. 42° 40'; W. 97° 10'). The vibration seemed to be traveling from northeast to southwest; it shook every building, rattling the windows; the approach was preceded by a rumbling sound not unlike the roll of distant thunder, followed by a distinct shock lasting one second, then vibrations for about five seconds, then another shock similar to the first; the total duration was about ten or fifteen seconds (including the preliminary rumble?—ED.). Only one similar experience, viz, the slight vibrations at 5:45 a. m., February 4, 1896, is known to have occurred at this place.

Saturday, September 17, at Morrills Corner, 3 miles dis-

tant from Portland, Me., first shock at 10:54 a. m., lasting seven seconds, followed after an interval of eleven seconds by a second shock, lasting five seconds. This is the first earthquake at that place since February 17. It was recorded on a seismograph belonging to Mr. Robert Balch, who says that the first shock deflected the needle 0.09 inch, in a series of regular waves, and the second shock deflected it 0.07 inch in two sharp waves.

THE RAINFALL OF MAY IN JAMAICA.

According to the Jamaica weather report for May, 1898, the rainfall for the whole island was 85 per cent above the average.

This result has been chiefly attained by heavy rains between the 23d and 27th of May, due to a shallow cyclonic depression which traveled from west to east, northward of Jamaica. In the west of Jamaica the heaviest rainfall occurred on the 24th, and in the eastern portion of the island on the 25th. On an average between 5 and 7 inches fell on one or the other of these days all over the island, and in the cases of 13 stations which had during the month over 10 inches in one day, all but two occurred on the 25th in the east, and the 24th in the west. A phenomenal fall of 28.66 inches occurred at Cinchona Plantation on the 25th, concerning which special inquiry was made. The Superintendent, in reply, states as follows: "I beg to say there is no mistake whatever about the rainfall (28.66 inches) here on the 25th of May. We had to measure the rain three times during the day to prevent the gauge overflowing, and of course after measuring, the water was thrown away; it was not measured over a second time. We had steady heavy rain all day on the 25th; I don't think it ceased raining for five minutes during the twenty-four hours. During the night we had high winds which blew down a number of trees." It will thus be seen that the rate of fall was not excessive, being not much more than 1 inch an hour, but the fall continued at this rate for twenty-four hours, producing the phenomenal record for the day of 28 inches.

Although the rainfall for the whole island was 85 per cent above the average, and the rainfall at Cinchona quite unprecedented, yet, the average for the island was not so large as on several previous occasions. The following table gives the heavy monthly falls since 1870, viz, those months for which the average for the whole island exceeded 15 inches:

Year.	Month.	Rainfall.	Year.	Month.	Rainfall.
1870	May	17.38	1886	June	23.42
1870	October	16.74	1888	May	20.18
1879	October	15.69	1897	October	19.30
1885	December	15.60	1898	May	16.62

NOTE.—Editorial notes for which there was no room in the MONTHLY WEATHER REVIEW for September must be deferred to the next number.—ED.

METEOROLOGICAL TABLES AND CHARTS.

By A. J. HENRY, Chief of Division of Records and Meteorological Data.

For text descriptive of tables and charts see page 366 of REVIEW for August, 1898.

TABLE I.—Climatological data for Weather Bureau Stations, September, 1898.

Stations.	Elevation of instruments.		Pressure, in inches.		Temperature of the air, in degrees Fahrenheit.						Precipitation, in inches.		Wind.		Maximum velocity.						
	Barometer above sea level, feet.	Thermometers above ground.	Anerometer above ground.	Mean actual, 8 a.m. and 8 p.m. + 2°.	Mean reduced.	Mean max. and min. + 2°.	Departure from normal.	Maximum.	Minimum.	Date.	Mean maximum.	Greatest daily range.	Mean wet thermometer.	Mean temperature of the dew point.	Total.	Departure from normal.	Total movement, miles.	Prevailing direction.	Miles per hour.	Date.	
New England.																					
Eastport.	76	69	74	29.91	30.00	- .03		63.6	+ 2.3		63	39	21	49	24	51	48	2.93	- 0.2	ne.	
Portland, Me.	103	81	88	29.89	29.98	- .06		55.9	+ 0.1	80	6	30	21	53	26	55	52	2.93	- 0.4	w.	
Northfield.	872	15	65	29.11	30.04	- .03		61.3	- 1.5	87	4	70	41	21	53	27	53	3.48	- 0.2	nw.	
Boston.	125	115	181	29.91	30.05	- .02		59.0	- 3.0	90	4	71	30	21	47	42	54	51	2.66	- 0.2	sw.
Nantucket.	14	43	54	30.04	30.05	- .05		66.2	- 3.8	92	3	73	41	21	57	28	59	56	2.74	- 1.0	s.
Woods Hole.	22	51	57	.....	.....	.....		65.2	+ 2.5	95	3	75	52	13	60	62	60	2.83	- 2.5	sw.	
Vineyard Haven.	20	.....	.....	.....	.....	.....		65.4	+ 2.4	92	3	70	46	21	60	17	.....	0.76	- 2.4	nw.	
Bloc Island.	27	39	48	30.04	30.07	- .01		67.4	+ 2.9	88	2	74	48	21	60	23	22	1.02	- 2.8	sw.	
Narragansett.	10	.....	.....	.....	.....	.....		64.9	+ 1.3	84	1	70	49	25	60	15	61	0.96	- 2.0	sw.	
New Haven.	107	118	140	29.94	30.06	- .03		66.6	+ 3.1	93	3	76	42	21	57	26	61	59	2.30	- 1.4	sw.
Mid. Atlan. States.								69.7	+ 2.7	90	.....	.....	.....	.....	.....	76	2.34	- 1.5	.....	.....
Albany.	97	84	113	29.95	30.06	- .01		66.6	- 3.5	94	1	77	40	21	56	30	59	56	2.93	- 1.3	s.
Binghamton.	875	79	90	.....	.....	.....		63.6	+ 2.6	93	1	75	36	21	52	37	.....	0.6	- 0.6	w.	
New York.	314	298	326	29.74	30.07	- .02		68.9	+ 3.0	94	3	78	49	25	61	23	62	58	1.28	- 2.4	sw.
Harrisburg.	377	94	104	.....	.....	.....		68.4	+ 4.0	94	3	78	46	21	58	23	24	1.82	- 2.0	sw.	
Philadelphia.	117	168	184	29.97	30.09	- .01		71.4	+ 4.3	96	1	80	51	11	63	22	64	62	1.81	- 1.5	s.
Atlantic City.	52	68	76	30.04	30.08	- .00		68.0	+ 1.3	89	3	74	50	21	62	21	64	64	3.25	- 1.7	sw.
Cape May.	24	52	70	30.07	30.09	.....		67.8	- 0.3	83	3	71	55	21	64	15	23	7.342	- 0.7	n.	
Baltimore.	123	68	82	29.96	30.09	- .01		71.4	+ 3.5	97	3	81	52	11	62	29	63	59	1.56	- 2.3	sw.
Washington.	112	59	76	29.98	30.10	- .01		71.0	+ 3.2	95	3	81	48	12	61	28	63	60	0.89	- 2.8	s.
Cape Henry.	5	34	.....	.....	.....	.....		74.4	+ 2.6	95	6	81	59	29	68	21	24	3.20	- 1.4	.....
Lynchburg.	685	83	88	29.39	30.12	+ .08		71.2	+ 2.2	93	6	83	46	12	60	32	64	61	4.50	+ 0.7	sw.
Norfolk.	57	88	93	30.04	30.10	+ .01		73.8	+ 2.7	92	6	81	60	29	67	25	68	65	3.34	- 1.2	sw.
Richmond.	144	98	105	.....	.....	.....		73.1	.....	94	18	83	50	12	63	29	.....	2.33	4.116	n.	
S. Atlantic States.								76.2	+ 2.2	92	.....	.....	.....	.....	.....	82	3.13	- 2.2	.....	.....
Charlotte.	773	68	76	29.28	30.09	- .00		73.2	+ 2.1	90	19	82	53	18	64	24	66	63	7.9	- 0.7	ne.
Hatteras.	11	17	36	30.08	30.09	+ .02		76.2	+ 2.5	96	1	80	67	12	72	12	71	68	1.59	- 4.8	n.
Kittyhawk.	9	12	30	.....	.....	.....		74.7	+ 1.3	91	2	78	64	10	70	19	.....	4.45	- 0.2	.....
Raleigh.	375	93	101	29.72	30.11	- .00		73.4	+ 2.9	90	6	82	51	12	65	26	66	64	7.8	- 0.2	sw.
Wilmington.	78	82	90	30.01	30.10	+ .03		75.7	+ 2.1	91	19	83	56	12	68	23	70	68	8.5	- 1.5	ne.
Charleston.	48	14	92	30.05	30.10	+ .04		78.3	+ 2.3	89	6	84	64	12	73	17	72	70	1.49	- 5.1	e.
Columbia.	5	.....	.....	.....	.....	.....		76.1	+ 2.3	95	4	86	55	13	66	31	27	30	8.267	sw.	
Augusta.	180	89	103	29.89	30.08	+ .03		76.4	+ 2.0	92	6	82	57	13	68	27	69	67	3.04	- 1.1	.....
Savannah.	82	63	89	29.99	30.07	+ .01		78.0	+ 2.2	91	4	85	64	12	71	20	72	71	5.06	- 1.0	sw.
Jacksonville.	43	69	84	29.99	30.04	+ .01		79.8	+ 2.2	93	3	86	69	15	73	20	74	73	8.46	- 5.0	se.
Florida Peninsula.								81.3	+ 0.7	92	1	91	17	86	72	9	76	74	5.09	- 2.7	.....
Jupiter.	28	13	30	29.96	29.99	- .02		81.3	+ 1.7	91	17	86	72	9	76	15	76	80	3.38	- 6.3	se.
Key West.	22	43	50	29.96	29.98	- .01		82.0	+ 0.5	89	29	87	69	2	77	17	76	73	5.33	- 2.1	se.
Tampa.	36	60	67	29.97	30.01	- .01		80.5	+ 0.9	93	19	89	69	21	74	72	85	81	6.57	+ 0.4	1.28
East Gulf States.								77.7	+ 1.3	92	.....	.....	.....	.....	.....	82	3.18	- 7.4	.....	.....
Atlanta.	1,131	92	126	28.92	30.09	- .01		78.8	+ 2.8	89	27	81	59	13	66	23	65	61	6.34	- 2.4	ne.
Pensacola.	56	78	90	29.95	30.01	- .02		79.0	+ 1.5	90	18	84	69	27	74	13	74	82	17.93	- 1.3	ne.
Mobile.	57	88	96	29.98	30.02	- .01		78.0	+ 1.2	90	1	84	66	29	72	21	72	71	16.40	+ 11.2	n.
Montgomery.	221	100	112	29.80	30.03	- .02		76.8	+ 1.2	92	2	85	60	8	68	26	70	68	9.13	- 1.8	sw.
Vicksburg.	247	65	73	29.72	29.98	- .07		77.1	+ 1.8	92	2	85	55	8	69	24	71	69	8.93	+ 5.4	se.
New Orleans.	54	112	120	29.93	29.99	- .02		79.5	+ 1.2	92	2	85	68	28	74	17	74	72	13.90	- 9.3	se.
Port Eads.	27	.....	.....	.....	.....	.....		79.6	- 0.3	87	1	84	71	28	75	12	.....	18.44	- 12.4	e.	
West Gulf States.								78.1	+ 2.1	93	2	88	56	20	70	30	69	64	1.32	- 2.1	.....
Shreveport.	249	77	84	29.70	29.96	- .08		77.0	+ 1.5	93	2	88	56	8	68	26	70	68	5.42	- 1.7	ne.
Fort Smith.	481	63	72	29.48	29.96	- .06		76.2	+ 3.9	96	3	86	52	8	66	29	68	65	5.42	- 1.5	e.
Little Rock.	802	71	79	29.68	30.00	- .06		75.7	+ 2.8	96	3	84	56	8	67	27	69	67	10.23	+ 1.1	sw.
Corpus Christi.	20	42	50	29.91	29.98	- .08		80.4	+ 1.6	94	30	86	69	12	75	22	75	73	2.33	- 2.4	ne.
Fort Worth.	670	106	114	.....	.....	.....		77.2	.....	98	15	89	55	37	37	65	65	0.29	4.4	.....
Galveston.	54	85	96	29.87	29.92	- .08		80.3	+ 0.8	89	6	85	68	17	78	19	74	72	6.78	- 0.6	ne.
Palestine.	510	54	61	29.42	29.95	- .10		77.8	+ 2.1	95	6	86	55	18	68	33	71	69	1.92	- 1.8	ne.
San Antonio.	704	95	104	29.21	29.99	- .08		79.6	+ 3.1	95	30	90	62	13	70	30	69	64	1.32	- 2.1	sw.
Ohio Val. & Tenn.								72.4	+ 3.9	95	2	83	52	8	65	27	65	62	3.26	- 0.9	.....
Chattanooga.	762	106	112	29.31	30.10	+ .01		73.6	+ 2.9	90	5	82	57	8	65	27	66	65	6.50	- 2.6	sw.
Knoxville.	1,004	10	88	29.05	30.09	- .01		72.7	+ 3.4	89	4	83	51	8	62	28	66	64	7.44	- 4.7	n.
Memphis.	399	140	154	29.61	30.02	- .05		76.2	+ 4.1	93	2	84	57	8	68	22	69	67	5.57	- 2.4	sw.
Nashville.	545	128	134	29.48	30.05	- .01		75.2	+ 4.5	93	4	85	51	8	65	23	68	63	7.48	- 0.8	sw.
Lexington.	989	75	104	29.03	30.06	- .00		73.0	+ 3.9	92	1	82	49	13	65	23	68	63	8.47	- 1.0	s.
Louisville.	525	114	136	29.50																	

TABLE I.—*Climatological data for Weather Bureau Stations, September, 1898—Continued.*

Stations.	Elevation of instruments		Pressure, in inches.		Temperature of the air, in degrees Fahrenheit.						Precipitation, in inches.		Wind.																
	Barometer above sea level, feet.	Thermometers above ground.	Mean actual, 8 a.m. and 8 p.m. + 2.	Mean reduced.	Departure from normal.	Mean max. and min. + 2.	Departure from normal.	Maximum.	Date.	Mean maximum.	Date.	Mean minimum.	Greatest daily range.	Total.	Departure from normal.	Days with 0.1 or more.	Total movement, miles.	Prevailing direction.	Maximum velocity.	Date.	Clear days.	Partly cloudy days.	Cloudy days.	Average cloudiness, tenths.	Total snowfall.				
	A above ground.	A above ground.	Mean actual, 8 a.m. and 8 p.m. + 2.	Mean reduced.	Departure from normal.	Mean max. and min. + 2.	Departure from normal.	Maximum.	Date.	Mean maximum.	Date.	Mean minimum.	Mean wet thermometer.	Mean temperature of the dew-point.	Mean relative humidity, per cent.	Total.	Departure from normal.	Days with 0.1 or more.	Miles per hour.	Direction.	Clear days.	Partly cloudy days.	Cloudy days.	Average cloudiness, tenths.	Total snowfall.				
<i>Up. Miss. Val.—Con.</i>																													
Dos Moines.....	867	84	88	29.07	29.99	-.02	67.4	+ 3.3	94	78	45	7	56	37	59	71	1.91	- 1.3	9	4,721	sw.	35	29	17	8	4.1			
Dubuque.....	908	101	109	29.25	29.99	-.04	65.8	+ 2.6	91	76	40	11	56	57	53	80	8.07	+ 1.0	9	4,317	s.	28	22	17	10	3.6			
Keokuk.....	614	84	78	29.34	29.99	-.04	70.8	+ 4.4	94	73	49	7	62	26	63	60	8.07	+ 4.6	10	4,781	s.	24	13	10	7	4.3			
Cairo.....	350	87	93	29.64	30.01	-.04	74.2	+ 4.3	92	80	55	7	66	23	68	66	84	6.11	4.6	4,898	s.	36	29	9	14	4.9			
Springfield, Ill.....	644	82	92	29.33	30.00	-.06	70.0	+ 3.6	92	80	47	11	60	29	63	60	78	6.82	+ 3.6	11	5,825	sw.	27	21	12	10	4.8		
Hannibal.....	534	75	107	.....	.....	.....	71.1	+ 4.4	95	80	48	7	62	23	64	64	8.86	+ 6.4	12	6,323	sw.	38	24	16	8	3.7		
St. Louis.....	567	111	210	29.42	30.02	-.03	74.2	+ 4.8	92	83	51	11	65	25	67	64	77	8.23	+ 0.1	12	6,027	s.	30	5	14	9	4.2		
<i>Missouri Valley.</i>																													
Columbia.....	4	84	.....	72.2	+ 3.7	98	3	83	43	8	61	39	.....	5.43	+ 1.8	11	5,133	s.	44	5	10	12	8	4.9				
Kansas City.....	968	73	95	28.98	29.98	-.04	71.4	+ 3.9	94	84	48	10	62	24	64	60	74	4.48	+ 1.0	10	5,827	se.	31	4	15	9	3.6		
Springfield, Mo.....	1,384	100	103	28.61	29.98	-.05	70.8	+ 3.1	88	79	47	7	63	23	68	61	81	6.78	+ 2.7	11	6,633	s.	35	15	15	5	4.3		
Topeka.....	81	.....	.....	71.3	+ 2.6	97	3	82	46	7	60	32	.....	4.98	+ 2.1	8	.....	.....	.....	.....	.....	13	14	5	3	3.5		
Lincoln.....	1,199	74	84	28.69	29.95	-.06	68.2	+ 2.1	97	20	79	43	9	56	37	51	65	2.32	+ 0.4	5	7,007	s.	36	5	20	8	3.5		
Omaha.....	1,103	92	97	28.80	29.95	-.06	68.3	+ 3.5	96	20	75	34	10	46	34	46	58	58	2.94	+ 0.2	3	5,864	s.	30	29	18	10	3.7	
Sioux City.....	1,139	96	164	.....	.....	.....	65.2	0.0	96	20	78	41	30	52	40	.....	0.95	+ 0.2	6	6,002	se.	37	30	18	5	3.8		
Pierre.....	1,460	50	62	28.40	29.93	-.06	64.6	+ 0.9	100	1	78	34	10	51	46	50	59	47	0.26	4	6,002	s.	37	27	17	10	3.8		
Huron.....	1,306	58	67	28.56	29.94	-.06	62.2	+ 2.1	100	2	78	29	30	47	47	50	42	60	1.31	+ 0.1	7	8,290	s.	44	27	17	8	3.8	
Tankton.....	1,234	52	58	.....	.....	.....	65.5	+ 3.4	96	2	78	35	30	53	39	.....	1.25	+ 1.6	3	5,933	e.	43	29	16	5	4.3		
<i>Northern Slope.</i>																													
Havre.....	2,494	46	47	27.28	29.86	-.10	57.7	+ 2.8	90	19	72	32	12	43	49	47	38	57	1.06	8	6,724	w.	42	23	15	11	4.1		
Miles City.....	2,372	41	49	27.44	29.89	-.09	59.6	+ 0.4	91	27	73	34	10	45	45	50	43	63	0.89	+ 0.2	4	4,194	w.	33	32	22	14	4.1	
Helena.....	4,108	88	93	25.85	29.99	-.00	56.7	+ 0.9	87	19	63	30	45	40	53	47	47	0.87	+ 0.3	8	5,433	s.	32	21	15	6	4.3		
Rapid City.....	3,251	46	50	26.85	29.92	-.05	61.2	+ 0.2	99	20	75	34	10	48	47	47	34	46	1.27	+ 0.7	3	5,601	w.	48	24	11	5	4.1	
Cheyenne.....	6,105	58	60	24.08	29.96	-.01	57.0	+ 0.8	86	20	73	28	6	41	43	41	20	34	0.47	+ 0.4	5	6,940	n.w.	43	29	18	8	3.3	
Lander.....	5,372	28	36	24.68	29.99	+.01	55.4	+ 0.3	86	19	73	26	11	38	50	42	28	44	0.86	+ 0.4	5	3,416	s.	36	27	16	11	3.1	
North Platte.....	2,826	48	52	27.07	29.98	-.02	62.3	+ 0.1	98	2	77	35	7	48	50	52	46	67	2.56	+ 1.3	6	5,969	s.	40	5	22	3	3.0	
<i>Middle Slope.</i>																													
Denver.....	5,290	79	151	24.77	29.97	+.01	61.9	+ 0.0	90	2	79	32	11	45	45	45	27	39	0.28	+ 0.5	6	5,563	s.	41	30	17	10	3.4	
Pueblo.....	4,713	74	81	25.33	29.97	+.02	61.8	+ 3.4	94	82	33	10	44	48	46	31	44	0.51	+ 0.1	4	4,795	e.	38	5	18	8	3.2		
Concordia.....	1,398	42	47	26.47	29.98	-.07	70.0	+ 2.2	100	4	83	41	7	57	42	58	53	67	3.40	+ 1.0	6	5,104	s.	32	29	17	8	3.9	
Dodge.....	2,504	44	52	27.38	29.93	-.04	68.2	+ 0.6	97	5	82	36	7	55	41	56	50	67	3.16	+ 1.8	5	7,432	s.	55	16	19	6	3.6	
Wichita.....	1,351	78	35	28.54	29.94	-.05	72.0	+ 2.0	98	27	85	44	12	59	55	70	70	1.55	+ 1.1	6	5,292	s.	36	26	1	4	2.9		
Oklahoma.....	1,218	54	62	28.69	29.95	-.05	74.1	+ 2.5	97	26	86	45	12	63	59	59	70	1.72	+ 1.2	4	6,474	s.	30	1	25	1	3.2		
<i>Southern Slope.</i>																													
Abilene.....	1,749	45	54	28.18	29.97	-.04	75.4	+ 0.8	100	15	87	46	12	64	33	62	56	61	8.44	+ 1.0	6	6,360	s.	31	1	18	6	3.5	
Amarillo.....	3,691	54	61	26.28	29.98	-.02	67.0	+ 0.4	95	4	80	37	11	53	40	54	45	55	0.48	+ 0.1	6	10,945	s.	48	5	19	6	2.4	
<i>Southern Plateau.</i>																													
El Paso.....	8,767	10	110	26.18	29.92	-.01	73.3	+ 0.1	93	21	87	46	12	60	41	56	43	44	4.50	+ 0.6	6	7,151	e.	45	16	19	9	2.8	
Santa Fe.....	6,998	47	50	28.34	29.95	-.04	61.1	+ 1.2	83	25	74	33	12	48	35	45	24	39	0.18	+ 1.3	2	3,910	s.	30	27	15	1	0.4	
Phenix.....	1,076	47	57	28.69	29.78	-.07	84.2	+ 3.4	106	18	99	64	26	69	38	62	46	32	0.04	+ 0.5	1	3,219	e.	27	10	29	1	0.3	
Yuma.....	139	16	50	29.50	29.73	-.08	86.7	+ 2.3	110	10	102	63	29	71	42	67	56	44	0.00	0	0	2,739	ne.	20	30	29	1	0.3	
Independence.....	8,907	10	58	29.78	29.78	-.09	72.0	+ 2.0	94	8	86	48	27	58	34	50	18	1.20	+ 0.1	2	5,355	n.w.	52	30	28	1	1		
<i>Middle Plateau.</i>																													
Baker City.....	3,470	49	55	26.41	29.95	-.03	58.5	+ 2.7	93	19	74	30	28	43	46	45	30	44	0.47	+ 0.3	5	4,187	s.	29	n.w.	1	19	8	3.8
Idaho Falls.....	4,742	55	56	25.24	29.97	-.02	56.6	+ 0.9	91	19	75	30	29	38	50	32	50	50	0.08	+ 0.6	1	7,807	s.	40	24	21	1	1.9	
Spokane.....	1,943	99	107	27.91	29.93	-.05	60.4	+ 2.3	88	18	74	37	28	47	42	50	40	53	0.47	+ 0.5	4	5,357	ne.	28	27	15	6	3.8	
Walla Walla.....	1,018	65	73	28.86	29.93	-.07	65.4	+ 1.5	92	17	78</																		

TABLE II.—*Meteorological record of voluntary and other cooperating observers, September, 1898.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.			Stations.	Temperature. (Fahrenheit.)			Precipita- tion.			Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.			Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.			Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.	
<i>Alabama.</i>	°	°	°	In.	In.		<i>Arizona—Cont'd.</i>	°	°	°	In.	In.		<i>California—Cont'd.</i>	°	°	°	In.	In.	
Alco †.....	92	59	75.8	7.02			Tucson †.....	102	54	79.3	0.10			Edmonton *†.....	92	35	59.0	0.26		
Asheville †.....	92	54	71.6	8.79			Walnut Grove.....				0.00			Elsinore.....	112	47	76.2	0.00		
Bermuda †.....	88	63	75.1	6.09			White Hills.....	101	65	86.8	0.00			Escendido.....	100	40	70.2	0.01		
Birmingham †.....	97	57	77.3	1.05			Willcox *†.....	84	58	67.0	0.20			Fallbrook *†.....	107	50	68.4 ^a	T.		
Bridgeport †.....				7.83			Yarnell.....				0.15			Folsom City *†.....	99	52	70.4	0.24		
Citronelle †.....	89	63	76.8	8.29			<i>Arkansas.</i>							Fordyce Dam.....						
Clanton †.....	88	56	74.1	0.66			Amity.....	94	40	74.5	3.26			Fort Bragg.....						
Daphne.....	93	64	78.8	14.86			Blanchard Springs †.....	95	47	75.2	4.71			Fort Romie.....	104	37	68.8	0.04		
Decatur †.....	93	50	74.1	3.55			Brinkley.....	97	49	76.0	7.00			Fort Ross.....	74	45	57.8	2.98		
Demopolis.....				2.56			Camden a†.....				5.34			Fort Tejon.....				0.50		
Elba.....	92	59	75.0	2.11			Camden b†.....	97	52	75.9	5.55			Georgetown.....	98	44	67.2	0.05		
Eufaula a†.....	93	59	77.0	1.63			Canton *†.....	98	49	74.8	...			Glendora.....				3.55		
Evergreen.....	100	59	77.6	6.11			Conway.....	104	44	78.1	8.67			Goshen *†.....	101	53	81.4	0.48		
Florence a†.....				1.82			Corning.....	97	45	74.6	11.08			Grand Island *†.....	102	46	72.5	0.48		
Florence b†.....	98	50	76.0	2.05			Dallas.....				4.87			Grass Valley.....				0.61		
Fort Deposit.....	92	61	77.2	1.17			Dardanelle.....				6.32			Greenville †.....	98	23	58.3	0.30		
Gadsden.....	90	52	72.0	3.19			Elon †.....	96	50	76.6	5.61			Healdsburg *†.....	90	38	65.4	0.76		
Goodwater.....	96	58	76.5	1.37			Fayetteville †.....	94	44	73.2	4.53			Hill Ranch.....	115	43	73.8	0.14		
Greensboro †.....	91	58	76.1	2.63			Forrest.....	96	51	76.8	6.39			Hollister.....	105	39	64.4	0.26		
Hamilton.....	98	54	76.0	3.97			Fulton †.....				2.56			Humboldt L H.....				1.80		
Highland Home †.....	99	64	76.3	2.40			Hardy.....	97	49	74.0	9.41			Indio *†.....	109	68	86.8	0.00		
Jasper.....				2.49			Helema a†.....				4.49			Iowa Hill *†.....	92	48	67.2	0.44		
Livingston.....	93	56	76.8	2.99			Helema b.....	100	54	77.6	4.03			Jackson.....	98	46	69.2	0.40		
Lock No. 4.....	91	53	74.2	2.44			Hot Springs a.....	100	53	76.8	5.05			Jolon.....				0.30		
Madison Station †.....	92	48	73.0	1.88			Hot Springs b.....				5.00			Keene *†.....	99	46	63.8	0.08		
Maple Grove.....	91	53	73.8	4.76			Jonesboro.....	94	49	74.9	9.61			Kennedy Gold Mine.....	99	43	67.7	0.42		
Marion †.....	95	58	77.2	1.90			Keesee Ferry †.....	96	42	73.2	6.73			Kernville.....				0.05		
Mount Willing †.....	91	60	75.8	1.46			Lacrosse †.....	94	49	73.6	7.40			King City *†.....	108	44	66.6	0.00		
Newbern †.....	92	59	77.0	2.84			Lonoke *†.....	99	53	76.4	8.18			Kingsburg *†.....	100	55	74.2	1.50	2.5	
Newton †.....	91	57	74.2	1.89			Lutherville *†.....	93	55	75.2	...			Kono Tayee.....	90	50	68.0	0.51		
Oneonta.....	89	50	72.3	1.31			Malvern †.....	102	48	75.1	6.55			Lagrange *†.....	108	52	74.6	0.70		
Opelika †.....	92	58	75.3	3.43			Marianna *†.....	98	56	77.2	...			Laporte *†.....	83	32	54.5	0.94		
Oxanna †.....	90	51	72.9	1.85			Marvell.....	98	54	77.2	6.28			Las Fuentes Ranch.....				4.09		
Pineapple.....	97	60	77.4	2.50			Mena *†.....	96	50	76.8	7.41			Lemoore a*†.....	102	41	71.6	1.23		
Pushmataha †.....	93	63	76.4	4.64			Monticello.....	97	49	76.4	6.32			Limekiln.....	109	40	74.4	0.29		
Riverton †.....	98	48	76.3	...			Mossville.....	89	46	71.2	10.50			Lime Point L H.....				1.01		
Rockmills.....	94	58	74.6	0.71			Mount Nebo.....	89	54	71.4	6.71			Lodi.....	98	49	69.0	0.60		
Scottsboro †.....	90	53	73.9	4.19			New Gascony.....	96	50	75.8	7.41			Los Alamos.....				1.38		
Selma †.....	95	62	77.6	1.23			Newport a†.....				11.64			Los Gatos b.....	92	46	63.6	1.77		
Sturdevant.....				0.46			Newport b.....	96	50	74.9	12.53			Lytton Springs.....	88 ^d	48 ^d	65.4 ^d	0.63		
Talladega.....	93	54	74.4	0.63			Northport b.....				10.22			Malakoff Mine.....	90	42	64.6	0.58		
Tallassee.....				1.35 ^a			Osceola.....	96	52	75.3	5.34			Mammoth Tank *†.....	111	75	92.9	0.00		
Thomasville.....	91	50	74.2	2.88			Ozark †.....	98	52	75.9	5.48			Manzana.....	102	46	73.9	T.		
Tuscaloosa †.....	95	53	76.8	2.14			Picayune †.....	100	48	75.5	...			Mare Island L H.....				0.83		
Tuscumbia.....	94	54	76.6	3.75			Pinebluff.....	99	55	77.8	9.01			Merced *†.....	103	53	74.1	0.83		
Union †.....	62			3.51			Pocahontas.....	93	50	74.2	11.34			Mills College.....				1.10		
Union Springs †.....	90	61	76.4	1.55			Pond.....	90	45	71.7	5.97			Milo.....				1.69		
Uniontown †.....	94	62	78.4	3.19			Powell.....	98	51	75.1	5.74			Milton (near) *†.....	102	51	71.6	0.58		
Valleyhead.....	98	52	72.6	6.80			Prescott.....	100	51	76.8	3.40			Modesto *†.....	103	50	74.2	0.31		
Warrior.....				1.29			Rison.....	97	49	75.7	11.75			Mohave *†.....	104	58	78.2	0.00		
Wetumpka.....	91	59	76.6	1.93			Russellville.....	98	48	75.1	7.08			Mokelumne Hill *†.....	50	66.7	0.44			
Wilsonville †.....				1.83			Silver Springs †.....	92	43	72.3	5.45			Monterey *†.....	81	50	63.8	0.79		
<i>Arizona.</i>							Spielerville.....	100	46	75.6	6.86			Mountain View.....				2.08		
Benson *†.....	91	62	76.0	2.07			Stuttgart †.....	97	48	75.8	7.45			Mount Frazier.....				1.20		
Bisbee †.....	87	54	70.7	2.11			Texarkana †.....	99	52	77.6	5.17			Mount Tamalpais.....	90	45	62.6	0.80		
Buckeye †.....	108	56	82.2	0.00			Warren †.....	98	50	76.4	7.81			Mutah Flat.....				2.00		
Calabasas.....	90	44	71.6	0.04			Washington *†.....	94	54	76.1	4.66			Napa b.....	102	42	65.0	0.59		
Camp Creek.....	97	62	79.3	0.10			Wiggs *†.....	97	51	76.6	4.94			Needles.....	104	67	85.9	0.00		
Casa Grande *†.....	101	69	88.9	1.00			Winslow.....	87	50	70.2	4.38			Nevada City.....	86	38	61.4	0.87		
Champie Camp.....	108	59	83.4	0.00			Witts Springs †.....	93	45	71.1	7.57			Newhall *†.....	108	52	71.4	0.14		
Congress.....	99	66	82.4	T.			Agnew.....	84	42	62.1	1.38			North Ontario.....	102	50	73.4	T.		
Dragon Summit *†.....	91	65	75.3	1.51			Azada.....	95	33	61.0	...			North San Juan *†.....	92	36	62.6	0.88		
Dudleyville.....	99	54	77.5	0.22			Ballast Point L H.....				2.20			Oakland a.....	81	50	60.7	1.16		
Empire Ranch.....	86	52	71.0	0.36 ^b			Bear Valley.....				2.20			Ogilby *.....	110	79	91.1	0.00		
Fort Apache.....	89	35	65.3	0.12			Berkeley.....	82	51	61.2	0.93			Oleta *.....	96	47	64.2	0.80		
Fort Defiance.....	82	29	59.7	0.16			Bishop.....	98	35	65.6	0.41			Orland *.....	103	58	75.7	0.40		
Fort Grant †.....	90	53	72.5	0.67			Boca *†.....	86	25	50.5	0.01			Palermo.....	100	43	70.3	0.34		
Fort Huachucu †.....	91	54	72.0	0.68			Bodie *.....	80	17	50.6	1.98			Paso Robles b.....	108	33	65.8	0.10		
Fort Mohave.....	114	60	88.6 ^a	0.00			Bowmans Dam *†.....	86	32	57.4	0.55			Piedras Blancas L H.....	91</					

TABLE II.—*Meteorological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>California—Cont'd.</i>																	
Rosewood.	102	41	67.7	0.26	In.	Longs Peak.	78	21	50.0	0.81	1.0	<i>Florida—Cont'd.</i>	○	○	○	In.	In.
Sacramento a.	92	45	66.8	0.36		Loveland.	.....	.....	.....	0.34		Orlando †.	91	71	80.5	3.43	
Salinas*.	80	50	61.0	0.00		Meeker.	83	19	54.4	0.03		Plant City.	94	68	81.0	5.97	
Salton*.	116	70	92.4	0.00		Millbrook.	.....	21	.....	0.54	3.0	St. Andrews.	.....	65	79.1	5.03	
San Bernardino†.	106	44	72.6	0.00		Minneapolis†.	99	31	64.8	0.85	2.0	St. Francis†.	92	65	79.1	2.25	
San Jacinto.	107	44	74.3	0.00		Moraine†.	79	24	52.3	0.40	2.0	St. Francis Barracks.	88	71	79.1	3.16	
San Leandro*.	90	54	64.8	1.13		Pazodat.	99	19	54.8	0.05		Sebastian.	89	72	80.4	7.67	
San Luis L. H.	.....	.....	.....	0.12		Paonia.	.....	.....	.....	0.03		Stephensville.	91	.....	.....	7.59	
San Mateo*.	86	55	64.6	1.57		Parachute.	90	30	64.8	0.25		Switzerland*.	88	71	77.3	3.50	
San Miguel*.	104	54	67.7	0.02		Perry Park.	.....	.....	.....	1.36	T.	Tallahassee†.	95	62	79.9	2.63	
San Miguel Island.	83	52	59.3	2.70		Redcliff.	96	32	61.1	1.55		Tarpon Springs†.	92	70	80.5	13.12	
Santa Barbara a.	91	52	66.0	3.17		Rockyford.	.....	.....	.....	0.70		<i>Georgia.</i>					
Santa Barbara L. H.	.....	.....	.....	3.10		Ruby.	.....	.....	.....	0.30		Adairsville.	87	58	72.5	9.98	
Santa Clara a.	.....	.....	1.84			Saguache†.	78	25	53.8	0.00		Alapaha.	94	62	77.8	1.47	
Santa Cruz†.	101	42	62.8	2.31	4.0	Salida.	89	26	56.9	0.10		Albany†.	98	60	77.4	0.72	
Santa Cruz L. H.	.....	.....	2.50			San Luis†.	85	22	52.0	0.51		Allentown†.	97	59	78.6	4.99	
Santa Maria.	94	44	63.6	0.96		Santa Clara.	.....	.....	.....	2.09	13.0	Americus†.	94	56	77.0	2.19	
Santa Monica*.	80	58	69.3	0.05		Seguro.	73	22	48.1	0.75		Athens b†.	90	56	73.2	6.86	
Santa Paula.	97	44	66.0	0.86		Seibert†.	.....	.....	.....	2.65		Bainbridge.	98	62	80.0	3.03	
Santa Rosa*.	93	44	62.0	0.02		Smoky Hill Mine.	87	23	54.8	1.30	5.0	Bellville.	96	59	77.2	3.15	
Saticoy.	.....	.....	0.75			Springfield.	.....	.....	.....	0.97	T.	Blakely†.	92	63	77.6	2.40	
Shasta.	106	49	73.6	T.		Stamford*.	72	16	44.6	1.45		Camak.	91	56	74.9	5.30	
Sierra Madre.	99	53	73.2	T.		Steamboat Springs.	79	20	46.6	0.40	4.0	Canton†.	.....	.....	.....	6.89	
Sneddens Ranch*.	90	14	50.5	1.75		Strickler Tunnel.	.....	.....	.....	0.55	6.5	Cartersville.	89	58	72.8	9.34	
Sonoma.	.....	.....	0.36			Trinidad.	.....	.....	.....	1.64		Cedarstown.	90	55	71.6	7.31	
S. E. Farallone L. H.	.....	.....	1.33			T. S. Ranch†.	86	35	64.2	0.12		Clayton†.	86	51	69.5	11.34	
Stanford University.	89	44	62.7	1.56		Vilas.	71	14	43.9	0.20		Columbus.	90	62	77.0	0.55	
Stockton a.	94	48	67.9	0.35		Wagon Wheel.	.....	.....	.....	0.57	T.	Covington.	86	56	71.3	5.33	
Summerdale†.	87	37	61.3	1.93		Walden.	85	16	51.9	0.04	0.1	Crescent.	89	57	76.6	4.36	
Susanville†.	87	31	59.8	0.10		Walden.	.....	.....	.....	2.30	T.	Dahlongea†.	89	52	69.5	12.08	
Tehama*.	97	53	67.1	0.53		Wallet.	.....	.....	.....	0.95		Diamond.	85	51	68.8	6.93	
Tejon Ranch.	.....	.....	0.28			Wray†.	95	32	60.6	2.33		Eastman.	95	59	78.0	2.43	
Templeton*.	105	50	66.3	0.15		Yuma.	.....	.....	.....	1.00	2.0	Elberton†.	90	54	73.9	5.63	
Thermalito.	102	47	73.8	0.39								Fitzgerald.	92	60	76.0	4.27	
Trinidad L. H.	.....	.....	2.83									Fleming†.	95	59	77.8	5.18	
Truckee*.	92	32	60.4	0.40	4.0							Fort Gaines.	92	51	74.8	1.50	
Tulare b.	.....	.....	3.92									Franklin.	89	60	74.5	2.53	
Tulare c.	112	48	72.6	3.75								Gainesville.	86	56	71.1	6.71	
Turlock.	94	53	78.0	0.66								Gillsville†.	93	55	74.7	10.13	
Ukiah.	95	40	63.4	0.82								Greenbush.	88	55	71.6	10.82	
Upperlake.	102	43	67.7	0.60								Griffin.	97	55	74.2	2.65	
Upper Mattole*.	90	48	59.2	2.66								Harrison.	90	63	76.3	0.81	
Vacaville*.	102	54	69.4	0.49								Hephzibah*.	90	62	79.3	0.45	
Ventura*.	87	38	60.7	1.10								Jesup.	96	61	78.2	3.37	
Visalia*.	102	60	72.8	3.56								Lagrange†.	94	57	74.8	1.63	
Volcano Springs*.	117	78	97.9	0.00								Lawrenceville.	.....	.....	.....	5.15	
Walnut Creek.	94	46	69.7	0.89								Louisville.	95	56	76.6	5.93	
West Palmdale.	.....	.....	0.00									Lumpkin.	89	60	76.6	0.42	
Westpoint.	97	44	68.6	0.27								Macon.	92	61	76.2	4.17	
Wheatland.	97	44	68.6	0.27								Marietta.	86	55	71.2	8.59	
Williams*.	96	54	72.4	0.48								Marshallville†.	90	60	77.5	1.34	
Wilmington*.	99	56	63.9	T.								Mauzy.	92	63	78.0	2.60	
Wire Bridge*.	98	47	69.3	0.60								Millen.	96	58	77.5	9.14	
Yerba Buena L. H.	94	32	62.4	0.14								Mount Vernon.	92	61	77.5	2.10	
Yreka†.	94	32	62.4	0.14								Newnan.	88	57	72.6	2.81	
Yuba City*.	91	58	72.2	0.41								Point Peter.	92	53	73.2	2.59	
<i>Colorado.</i>												Poulant.	95	59	77.4	2.59	
Altman.	76	13	50.7	1.17	10.0							Quitman†.	92	62	78.0	3.55	
Antlers†.	89	33	62.2	0.23								Ramsey.	90	55	72.0	8.44	
Arkins.	.....	.....	0.51									Rome†.	89	58	73.0	7.49	
Boulder.	85	34	62.1	1.12	1.0							Talbotton†.	88	59	72.5	1.12	
Boxelder.	.....	.....	1.36	T.								Tallapoosa.	87	58	71.8	4.91	
Breckenridge†.	79	15	44.2	0.38	3.8							Thomasville†.	94	64	79.6	8.99	
Canyon†.	94	34	66.3	0.27	T.							Toccoa†.	90	55	73.2	11.98	
Castlerock.	85	28	57.2	1.35	4.0							Union Point.	87	56	73.1	6.42	
Cedaredge.	87	27	60.5	0.37								Washington†.	94	55	74.6	4.22	
Cheyenne Wells.	95	32	62.2	1.92	5.6							Waycross.	92	63	78.5	5.01	
Colibrane.	.....	.....	0.40									Waynesboro.	90	58	73.9	6.13	
Colorado Springs†.	86	30	58.7	0.27	2.1							Westpoint.	93	57	75.1	2.98	
Cope.	98	32	60.8	2.28	8.0							<i>Idaho.</i>					
Crook.	99	27	61.0	2.97								Albany Falls.	84	29	54.7	1.28	
Delta.	92	29	61.6	0.85								American Falls.	93	31	60.2	0.00	
Dumont†.	.....	.....	0.48	T.								Atlanta.	87	25	53.0	0.56	
Durango.	88	27	59.1	0.30								Blackfoot†.	88	28	55.6	0.00	
Fairview.	83	25	52.4	0.61	T.							Boise Barracks.	88	32	60.4	0.01	
Fort Collins†.	90	30	58.6	0.50								Burnside†.	84	21	56.2	T.	
Fort Morgan.	97	29	61.0	0.43								Corral*.	85	27	54.2	T.	
Fox.	.....	.....	2.37	9.0								Downey.	90	21	55.6	0.33	
Garnett.	80	12	48.8	T.								Fort Sherman†.	91	31	56.9	1.68	
Georgetown.	75	24	53.8	.....								Gray.	77	26	50.6	0.30	
Glenayre†.	83	26	57.6	0.40	3.5							Lake.	72	20	54.0	0.00	
Grand Junction†.	85	38	64.5	0.10								Lakeview.	79	39	57.2	1.31	
Greeley.	93	30	59.6	0.13								Lewiston.	88	41	68.0	0.35	
Gunnison.	78	18	51.2	0.06								Lost River.	85	21	54.6	0.25	
Hamps.	88	29	55.2	1.17	5.0		</td										

TABLE II.—*Meteorological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>Idaho—Cont'd.</i>						<i>Indiana—Cont'd.</i>						<i>Iowa—Cont'd.</i>					
Warren †	90	26	54.6	1.25	0.27	Bedford	96	42	69.4	0.86		Fort Madison	90	0	0	In. 8.45	
Weston	90	25	58.4			Bluffton †	97	36	69.2	2.88		Fredericksburg				1.57	
<i>Illinois.</i>						Boonville	99	46	74.6	2.95		Galva	99	35	65.71	1.48	
Albion	98	47	72.4	3.57		Bright	96	46	70.6	4.55		Glenwood †	97	41	68.1	2.80	
Alexander †	96	45	72.0	5.19		Butterville †	96	42	70.7	4.59		Grand Meadow *†	92	42	69.5	1.93	
Ashton *†	90	48	66.7	3.61		Cambridge City †	94	36	68.0	3.91		Greene	98	34	65.8	1.56	
Astoria	91	47	68.4	6.68		Columbia City *†	92	47	65.9	3.17		Greenfield	94	38	66.6	2.48	
Atwood †				4.86		Columbus †	94	42	69.2	6.69		Grinnell	90	44	65.7	2.05	
Aurora a	98	41	68.0	4.25		Connersville †	96	40	70.0	3.63		Grundy Center	93	38	63.1	3.31	
Aurora b	98	40	66.5	4.29		Crawfordsville	99	45	72.0	3.10		Guthrie Center	96	40	68.2	2.89	
Bloomington	97	43	71.3	6.49		Delphi †	96	39	68.6	2.39		Hampton	93	36	68.8	3.11	
Bushnell	98	46	70.5	6.23		Edwardsville *†	94	54	73.6	4.31		Hawkeye				2.63	
Cambridge	87	45	66.8	2.72		Fort Wayne	96	39	67.9	5.26		Hedrick *†	98	40	65.8*	2.09	
Carlinsville	96	46	72.4	5.39		Greensburg	95	52	72.4	8.28		Hoperville	93	44	67.4	4.63	
Carlyle				2.87		Hammond †	94	35	66.6	1.53		Humboldt †	92	37	62.8	1.80	
Carrollton	93	40	70.0	4.24		Hector	93	38	67.4	3.64		Independence †	94	37	64.2	2.14	
Charleston	94	46	71.0	4.46		Huntington	95	42	68.2	3.97		Indianola a	94	42	67.9	1.99	
Chemung	90	35	63.6			Jeffersonville	94	49	72.6	3.66		Iowa City a	96	44	66.6	2.54	
Chester				3.33		Knightstown †	95	41	69.2	4.41		Iowa Fallist	93	36	63.1	2.69	
Cisne †	95	43	71.8	4.35		Kokomo †	93	43	68.6	2.98		Keosauqua	93	47	68.4	7.22	
Coatsburg	95	45	68.6	8.89		Lafayette †	95	43	68.6	3.03		Knoxville	92	44	67.6	2.14	
Cobden †	95	47	72.8	5.21		Laporte †	94	42	66.9	2.56		Lamoni	94	41	66.4	5.62	
Cordova	90	44	65.9	3.98		Logansport b †	94	43	67.6	1.97		Lansing	95	35	65.2	2.64	
Danville	94	46	70.0	4.00		Madison	93	45	72.2	4.34		Larchwood				0.98	
Decatur †	96	45	71.1	5.47		Marengo †	98	45	71.5	5.95		Larrabee †	94	32	63.4	0.96	
Dixon †	94	41	67.2	3.01		Marion †	97	38	69.4	2.47		LeClaire				2.67	
Dwight †	96	38	67.6	4.86		Markle	93	39	68.0	2.70		Lenmars	94	32	64.2	0.70	
Effingham †	96	44	71.7	5.26		Mauzy †	96	40	70.0	4.27		Lenox	92	42	66.6	4.87	
Elgin	91	40	66.0	4.40		Michigan City * ¹⁰	95	42	64.5			Logan †	98	40	65.2	1.72	
Equality	98	47	75.1	4.32		Mount Vernon †	96	49	73.8			Maple Valley				1.11	
Flora	94	46	72.0	4.76		Northfield †	93	39	67.6	3.07		Maquoketa	91	39	64.1	2.99	
Fort Sheridan	94	41	67.8	2.48		Paoli	96	42	70.6	5.94		Marshall †	95	40	65.2	2.48	
Friendgroveton				3.54		Princeton *†	98	46	71.2	5.82		Mason City	94	34	62.4	1.90	
Galva †	91	41	67.1	3.84		Richmond	98	37	68.6	3.17		Millman				1.98	
Glenwood *†	95	52*	68.8*	3.43		Rockport	95	50	73.6	3.91		Monticello	95	39	66.5	3.59	
Grafton †				4.53		Rockville †	95	45	69.4	6.12		Mooro	93	44	68.6	7.04	
Grayville	97	48	74.2	2.83		Scottsburg	96	46	72.1	5.51		Mountayn	94	44	67.0	5.36	
Greenville †	96	49	71.8	3.80		Shelbyville	98	47	70.3	6.04		Mount Pleasant *†	83	52	69.6	4.42	
Griggsville †	95	47	71.0	6.83		South Bend †	93	43	67.7	1.81		Mount Vernon a	92	42	65.4	3.80	
Halliday *†	93	49	73.4	2.87		Syracuse †						Neola	92	36	65.8	1.50	
Havana †	92	50	70.8	6.92		Terre Haute †	97	50	71.4	6.75		New Hampton	93	43	66.6	1.41	
Henry	98	42	68.4	6.91		Topeka †	90	32	61.2	4.06		Newton †	93	43	66.6	2.82	
Hillsboro †	98	47	72.1	5.56		Valparaiso †	92	38	66.2	2.51		North McGregor				1.57	
Joliet †	93	40	67.4	3.20		Vevay	95	49	75.6	4.40		Northwood	98	31	62.2	0.88	
Kankakee a	95	40	68.0	5.80		Vincennes	99	48	73.4	3.79		Odebolt	96	35	65.0	2.09	
Kishwaukee	90	33	63.7	3.49		Warsaw	90	36	66.8	3.65		Ogden	94	39	65.6	3.91	
Knoxville	95	44	67.5	5.69		Washington †	100	45	73.0	7.98		Olin	90	42	64.2	3.35	
Lagrange †	92	39	66.0	3.97		Winamac	94	33	68.7	3.53		Osage * ³	97	37	59.8	1.20	
Laharpe	93	47	69.4	6.42		Worthington †	98	42	71.3	7.87		Oscobia	93	43	66.2	3.09	
Lanark †	90	35	63.6	8.66		<i>Indian Territory.</i>											
Lexington	95	43	68.4	5.23		Adair						Oskaaloosa †	95	40	66.9	2.21	
Loami †				6.75		Afton	97	42	66.8	3.29		Ottumwa	98	45	67.6	2.98	
McLeansboro †	97	45	73.4	2.75		Albia	91	42	67.7	3.07		Ovid †	94	41	67.0	4.45	
Martinsville	98	45	71.8	4.90		Algonia *†	90	40	64.1	1.19		Pella	87	42	64.2	1.89	
Martinton †	96	40	68.9	5.77		Aita †	98	38	64.1	1.02		Plover	95	35	64.4	1.06	
Mascoutah	97	46	72.0	3.80		Amana a	98	43	65.6	4.14		Pringharn				0.55	
Mattoon	98	45	69.2	4.39		Amen b	96	40	65.1	3.07		Red Oak	95	44	66.6	3.88	
Minonk †	95	43	67.7	5.47		Amen (near)						Ridgway	94	41	65.5	1.51	
Morrismouth †	92	41	67.8	7.15		Atlantic †	95	35	64.6	2.72		Rockwell City	94	38	63.8	2.16	
Morrisonville †	90	40	69.0	4.60		Audubon	93	40	64.2	2.26		Ruthven	94	35	64.0	1.50	
Mount Carmel †				3.64		Belknap	92	46	68.4	5.00		Sac City †	92	35	62.8	2.00	
Mount Pulaski	97	46	70.9	5.14		Belleplaine	95	41	64.3	5.87		St. Charles	95	44	67.5	1.89	
Mount Vernon	96	40	70.0	4.54		Bonaparte †	98	45	68.2	7.30		Sibley	95	29	62.9	0.67	
New Burnside †	99	44	74.2	4.33		Britt	98	29	62.3	1.58		Sidney	94	44	67.4	5.40	
Olney a	95	43	71.8	4.41		Carroll	95	38	64.6	4.77		Sigourney	95	38	68.0	2.83	
Oswego *†	90	38	65.0	3.81		Cedarfalls	94	40	65.2	2.32		Spencer	94	29	61.8	0.94	
Ottawa †	94	39	67.4	5.90		Cedar Rapids †	95	44	67.3	3.11		Spirit Lake †	98	34	64.6	0.60	
Palestine †	94	42	69.4	7.42		Centerville	92	42	68.2	3.00		Tara	95	40	63.6	2.45	
Pana	96	46	71.0	3.90		Chariton	93	43	67.6	4.26		Thurman	95	38	67.1	3.95	
Paris	97	45	70.8	4.71		Charles City	95	33	64.2	1.13		Toledo	92	39	64.2	4.64	
Peoria a †	94	47	69.9	6.05		Clear Lake	92	36	63.0	1.85		Villisca	93	36	65.4	4.15	
Peoria b †	94	47	69.9	5.23		Decorah †	95	31	64.0	1.73		Vinton *†	93	42	64.7*	2.48	
Philo †	96	40	69.2	5.23		Delaware * ³	93	44	62.2	3.47		Wapello	91	44	67.0	1.76	
Plumhill †	98	46	72.8	3.93		Dows	93	35	63.3	2.69		Washington	92	41	66.4	2.46	
Rantoul †	96	43	69.6	3.86		Eldon	95	43	69.0	5.07		Washta				1.40	
Raum.	95	52	73.6	7.68		Eldora						Waterloo	96	39	65.2	2.07	
Reynolds	90	43	67.0	2.78		Elkhorn	97	32	65.2	2.50		Waverly	94	37	65.0	1.76	

TABLE II.—*Meteorological record of voluntary and other cooperating observers*—Continued.

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Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>Michigan—Cont'd.</i>						<i>Minnesota—Cont'd.</i>						<i>Mississippi—Cont'd.</i>					
Escanaba†	86	34	61.4	2.06	Incs.	Berndtji	87	33	59.4	1.96	Incs.	Port Gibson†	97	55	77.1	Incs.	8.22
Ewen	94	22	57.5	1.78		Bird Island	96	31	61.9	1.15		Rosedale‡	94	51	76.0		
Fairview	94	32	64.6	2.86		Blooming Prairie†	94	29	62.4	0.40		Thornton					6.00
Fitchburg	95	33	63.6	2.86		Caledonia†	94	36	63.0	1.94		Tupelo†					3.19
Flint	96	32	63.8	1.84		Camden	93	33	61.2	1.28		Walnut Grove	91	62	78.8		3.20
Frankfort	82	41	63.5	1.65		Campbell	98	25	59.4	1.20		Water Valley*†	99	51	74.1		4.00
Gladwin	91	31	61.5	2.00		Collegeville	93	37	63.0	2.00		Waynesboro	91	54	76.5		7.19
Grand Rapids†	95	36	65.7	4.18		Crookston†	84	30	57.6	2.22		Windham	95	59	77.6		5.75
Grape	98	89	66.7	8.40		Deephaven						Woodville†	91	59	77.0		6.18
Grayling	94	30	59.4	2.00		Detroit City	93	29	57.0	2.75		Yazoo City†	100	52	77.6		7.92
Grindstone City*† ¹⁰	94	40	65.2			Faribault	95	32	66.6	0.60		<i>Missouri.</i>					
Hanover	96	36	64.5	4.29		Farmington†	98	25	59.4	0.91		Akron					6.93
Harrisville	95	35	62.7	3.66		Glencoe	93					Appleton City	97	46	72.9		6.31
Hart	93	34	63.2	1.91		Grand Meadow†	94	33	62.0	0.98		Arthur*‡					7.04
Hastings	95	30	63.7	4.58		Granite Falls	95	30	61.0	1.10		Avalon	93	46	68.8		7.52
Hayes	94	32	63.4	1.26		Koochiching	79	29	55.5	4.56		Bettany	91	44	67.9		6.08
Highland Station						Lake City	99	32	68.9	0.74		Birintree	93	43	70.6		5.18
Hillsdale	93	88	64.9	4.30		Lake Jennie	93	35	62.7	0.92		Bolckow					7.60
Holland*† ¹⁰	85	43	66.7			Lakeside†	92	33	61.0	1.14		Boonville†					7.76
Howell						Lake Winnibigoshish	80	28	56.7	3.83		Brunswick	91	48	70.1		5.30
Humboldt	91	18	55.9	2.79		Leech Lake	91	28	53.3	2.26		Carrollton	93	48	70.5		6.41
Ionia	96	30	63.1	2.75		Long Prairie	92	28	59.3	2.34		Conception	90	43	67.5		5.18
Ishpeming	93	29	58.6	8.00		Luverne†	92	30	64.2	1.23		Cowgill*‡	90	44	70.4		7.96
Ivan	93	34	61.1	2.09		Lynd	90*	30	62.8	1.37		Darksville	94	43	69.5		5.35
Jackson	95	38	65.3	2.55		Mapleplain						Downing					7.09
Jeddo	97	33	64.4	1.90		Milaca	96	31	60.5	1.04		East Lynne*‡					5.36
Kalamazoo	95	39	66.3	2.57		Milan†	99	27	61.1	1.73		Edgehill*‡	92	46	70.5		4.91
Lake City	90	34	61.3	2.50		Minneapolis a	92	36	62.1	0.81		Edlon	99	49*	72.2°		6.75
Lansing	94	35	63.6	2.50		Minneapolis b ¹	95*	30	60.0	0.87		Elmira	94	40	69.9		4.09
Lapeer	96	29	63.0	1.66		Montevideo	98	32	62.8	1.72		Fairport					10.50
Lethrop	94	26	56.9	2.69		Morris	97	32	60.0	1.79		Farmersville					6.57
Ludington	85	30	61.1	2.38		Mount Iron	88	29	55.1	2.78		Fayette	96	47	71.8		5.74
Luzerne	92	31	59.2	2.24		Newfolden	81	27	54.6	2.10		Fulton	93				6.35
Mackinaw City	91	35	60.9	2.54		New Richland*‡	92	42	60.8			Gallatin*‡	93	48	70.3		8.10
Madison	97	42	66.6	2.88		New Ulm†	95	34	61.2	0.41		Glasgow	96	47	71.9		5.53
Mancelona	92	38	60.3	1.55		Park Rapids†	91	27	55.9	1.60		Gordonville*‡					7.48
Manistee	91	39	61.2	1.20		Pine River	91	31	58.5	2.34		Gorin					6.21
Manistique	78	33	58.3	1.82		Pipestone						Halfway	93	42	71.2		9.10
Middle Island*† ¹⁰	88	49	62.1			Pleasant Mounds	93	35	62.4	0.67		Harrisonville†	96	44	71.2		5.49
Midland	95	39	63.7	1.20		Pokegama Falls	90	28	55.8	2.10		Hermann†					4.82
Mottville	98	38	65.8	4.38		Redwing						Houston	93	41	71.4		5.87
Mount Clemens	98	35	65.3	6.10		Reeds						Houstonia					8.07
Mount Pleasant	94	40	62.9	1.99		Holling Green	92	36	62.2	0.90		Irena					6.36
Muskallongee Lake*† ¹⁰	87	40	60.6			Roseau†	92	28	52.2	1.39		Ironon†	96	87	72.0		4.61
Muskegon	87	38	63.8	2.55		St. Charles†	97	29	62.6	1.02		Jefferson City†	101	46	72.6		6.79
Newberry	90	26	56.9	2.33		St. Cloud	94	32	63.2	2.28		Kidder	91	44	68.6		7.30
North Manitou Island*† ¹⁰	85	46	67.0			St. Olaf	95	34	60.5	1.87		Lamar†	96	44	73.8		6.56
Northport	94	39	63.2	2.99		St. Peter	91	34	62.4	1.39		Lamonte					8.86
Old Mission	91	43	64.6	3.21		Sandy Lake Dam	90	30	57.4	2.23		Lebanon	93	47	72.2		9.25
Olivet	91	39	62.6	2.88		Shakopee	96	36	64.7	1.17		Lexington	95	45	71.5		6.90
Ormer	92	27	60.2	2.84		Slayton	94	30	62.0	1.49		Liberty	93	42	69.4		5.99
Ottawa Point*† ¹⁰	90	44	63.9			Tower†	90	28	54.8	2.95		Louisiana	97	44	72.0		4.86
Ovid	96	33	64.4	2.94		Two Harbors	86	30	56.6	2.28		McCune*‡	97	51	71.5		7.95
Owosso	99	32	65.7	2.82		Wabasha*‡	102	37	63.8	0.72		Marblehill	97	39	72.8		6.45
Parkerville						Willmar	93	32	59.8	0.66		Marshall†	96	44	71.0		6.36
Pentwater*† ¹⁰	90	46	67.6			Willow River	100	29	58.8	1.99		Maryville	95	44	67.8		6.61
Petroskey	93	37	62.0	2.84		Winnebago City	93	34	62.6	0.63		Mexico†	103	47	71.8		7.86
Plymouth	97	36	63.0	2.39		Worthington	90	35	62.5	1.31		Miami					6.68
Pointe aux Barques*† ¹⁰	96	43	65.9			Zumbrota†	96*	27	63.8			Mineralspring	89	42	69.2		6.91
Pointe Betsey*† ¹⁰	80	49	63.9			<i>Mississippi.</i>						Montreal	95	42	71.1		7.21
Port Austin	93	38	63.9	1.60		Aberdeen	100	45	75.7	3.65		Mount Vernon	96	45	73.4		8.41
Powers	94	30	59.1			Agricultural College	93	54	74.4	6.95		Neosho	92	39	71.6		7.48
Reed City	92	32	60.9	3.94		Austin†	95	49	75.2	5.73		Nevada	96	44	71.3		5.76
Rockland	93	35	59.6	2.11		Batesville†	94	46	74.8	3.79		New Haven	96	45	73.4		8.60
Rogers†	94	35	62.3			Bay St. Louis	90	67	78.8	12.88		New Madrid	99	38	76.9		7.12
Romeo		38d	61.5 ^a	2.24		Biloxi†	91	64	77.6	21.76		New Palestine	94	49	72.3		7.00
Saginaw	96	34	65.1	2.61		Booneville	95	49	76.3	2.95		Oakfield	97	45	73.4		4.83
St. Ignace	90	35	61.0	1.94		Briars	89	62	76.1	6.19		Oldent†	95	45	71.3		6.23
St. Johns	96	37	65.4	2.07		Canton†	97	51	77.0	6.50		Oregon a	93	44	69.1		10.01
St. Joseph	92	43	67.1	1.62		Columbus a	108	51	80.1	4.72		Oregon b	94	45	70.0		9.33
Sandbeach	95	37	63.4	1.05		Columbus b						Osceola†					10.73
Sidnaw ³	94	34*	57.8	1.93		Corinth†	94	51	75.5	1.74		Oto					6.60
Somerset	94	38	64.8	3.08		Crystal Springs†	92	55	75.8	6.16		Palmyra* ⁵	94	48	71.9		7.27
South Haven	92	38	65.6	5.04		Edwards	96	58	78.2	7.42		Phillipsburg*†	97	49	69.3		7.50
Stanton	94	32	62.4	4.53		Fayette	98	59	77.6	9.36		Pickering* ³	96	46	65.2		6.73
Sturgeon Point*† ¹⁰	92	40	63.6			French Camps	95	42	73.2	4.10		Platte River	94	47	68.4		6.84
Thomaston	92	22	58.2	1.46		Greenville a	93	57	75.0	5.75		Poplarbluff	96	47	74.0		10.20
Thornville	97	36	65.6	1.41		Greenville b†	95	56</td									

TABLE II.—*Meteorological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>Missouri—Cont'd.</i>																	
Wheatland	90	40	65.6	5.13		Ins.	Holdrege	90	40	63.9	5.05	Nebraska—Cont'd.	92	45	62.2	0.10	T.
Willow Springs	95	44	73.1	5.74		Hooper ^{*1}	94	40	63.9	2.07	Hooper ^{*1}	91	30	62.0	0.18		
Zeitonia						Imperial [†]	101	31	65.4	4.02	Imperial [†]	89	52	67.8	0.00		
<i>Montana.</i>						Kennedy	99	31	60.4	0.71	Kennedy	90	40	63.5	0.40		
Adel	80	21	50.1	0.70	1.0	Kimball [†]	95	31	60.5	0.60	Kimball [†]	83	23	56.2	0.08		
Billings	87	28	58.4	0.55		Kirkwood ^{*1}	98	40	63.8	0.49	Kirkwood ^{*1}	90	30	60.6	0.00		
Bozeman [†]	88	29	54.0	0.93		Lexington [†]	96	30	61.5	2.92	Lexington [†]	94	35	67.1	0.30		
Butte	86	28	54.3	0.91	T.	Lincoln ^b	97	40	67.8	2.45	Lincoln ^b	85	29	57.8	T.		
Castile	83	20	48.8	1.82	4.0	Lincoln ^{d†}	98	40	69.0	2.31	Lincoln ^{d†}	88	40	64.4	0.30		
Chinook [†]	87	29	54.1	0.68		Lodgepole [†]	96			0.30	Lodgepole [†]	91	31	61.0	0.28		
Corvallis						Longpine	94	30	61.7	3.23	Longpine	91	38	64.5	T.		
Crow Agency	89	30	58.7	1.01	1.0	Loup ^{b†}	100	31	61.3	0.67	Loup ^{b†}	92	40	62.6	0.11	T.	
Darby				0.18		Lynch ^{††}				Lynch ^{††}	89	32	61.0	0.31	0.5		
Dupuyer	85	28	54.2			Lyns.				Lyns.							
Florence	89	32	56.0	1.77		McCook				McCook							
Fort Benton	91	35	58.9	1.32		McCool				McCool							
Fort Logan	95	24	53.0	0.40		Madison	94	37	64.2	1.44	Madison	88					
Glendive [†]	96	34	61.3	1.70		Madrid ^{*5}	98	29	60.6	2.75	Madrid ^{*5}	96	42	69.8	0.36		
Glenwood	86	26	52.6	0.86		Marquette				Marquette	97	40	67.7	0.74			
Greatfalls [†]	83	36	56.6	1.72		Merriman				Merriman	95	38	57.2	T.			
Kalispell	95	32	55.7	0.55		Minden ^a	99	37	64.2	4.39	Minden ^a	90	34	59.2	T.		
Kipp [†]	90	23	53.4	0.87	T.	Mouree				Mouree	89	34	62.6	0.11			
Livingston [†]	87	27	57.1	0.61		Nebraska City ^b				Nebraska City ^b	98	34	62.5	T.			
Manhattan [†]	73	23	51.4	0.40		Nebraska City ^c	98	43	69.2	3.55	Nebraska City ^c	90	32	63.8	0.05		
Martinsdale [†]	84	25	53.7	1.26		Nemaha ^{*1}	98	40	68.0	5.08	Nemaha ^{*1}	96	40	64.1	0.18	1.0	
Marysville [†]	82	28	52.4	0.97	1.5	Nesbit	98	31	59.6	1.78	Nesbit	96	40	65.0	0.20		
Missoula	90	35	57.0	1.40		Norfolk ^b	94	34	64.1	1.46	Norfolk ^b						
Parrot	84	30	53.9	1.65		Norman				Norman							
Plains	82	34	57.1	0.30		North Loup	98	33	64.6	1.78	North Loup	86	35	62.0	5.34		
Poplar	94	30	57.2	2.45		Oakdale [†]	97	34	63.8	0.93	Oakdale [†]	85	30	57.3	5.38		
St. Ignatius Mission	81	31	54.2	0.58		Odell ^{*5}	96	42	67.6	3.26	Odell ^{*5}	85	31	58.9	5.12		
St. Pauls [†]	86	29	57.5	1.14		O'Neill [†]	97	35	63.4	1.29	O'Neill [†]	94	32	65.9	2.30		
Troy	89	29	56.7	1.56		Ord	100	32	63.0	2.75	Ord	87	34	61.3	2.42		
Utica	90	26	56.2	0.47	T.	Osceola				Osceola							
Yale	87	22	53.8	0.27		Ought [†]				Ought [†]							
<i>Nebraska.</i>						Palmer ^b	104	38	67.0	3.13	Palmer ^b	91	29	62.1	3.27		
Agree ^{*1}	98	38	63.4	1.47		Plattsmouth ^b				Plattsmouth ^b							
Albion	95	38	62.1	1.28		Ravenna ^a	100	32	64.7	3.10	Ravenna ^a	86	32	58.5	4.48		
Alliance						Ravenna ^b				Ravenna ^b	92	36	64.2	1.81			
Alma ^{*1}	94	32	61.8	5.69		Redcloud ^a				Redcloud ^a	89	33	62.2	2.37			
Ansley [†]	99	32	62.0	1.64	T.	Redcloud ^{b†}	90	38	66.6	4.75	Redcloud ^{b†}	88	34	61.5	3.35		
Arapaho ^{*1}	98	35	61.0	6.03		Republican ^{*1}	100	40	63.5	5.40	Republican ^{*1}	89	30	61.2	2.99		
Arborville ^{*1}	100	38	64.2	2.97		Rulo [†]	98	50	70.8	8.93	Rulo [†]	90	33	60.6	4.47		
Ashland ^{a†}	98	38	67.4	2.90		St. Libory	96	40	67.0	3.30	St. Libory	87	33	60.4	4.35		
Ashland ^{b†}	100	46	67.2	2.91		St. Paul	98	38	65.6	2.96	St. Paul	87	31	60.0	6.27		
Ashton						Salem ^{*1}	94	46	68.6	7.55	Salem ^{*1}	91	29	62.1	7.08		
Auburn ^{††}	99	40	68.6	4.37		Santee Agency [†]	101	34	69.4	0.82	Santee Agency [†]						
Aurora				3.02		Schuyler				Schuyler							
Bartley				4.15		Seneca ^{*1}	96	38	59.4	1.70	Seneca ^{*1}	98	51	70.0	1.49		
Bassett				0.27	T.	Seward ^{*1}	96	45	66.6	2.21	Seward ^{*1}	94	53	70.8	1.52		
Beatrice [†]	100	37	68.2	3.41		Springview	94	36	62.9	0.52	Springview	99	45	71.4	1.56		
Beaver City [†]	103	33	66.2	5.51		Stanton				Stanton	98	39	67.5	1.61			
Bellevue				3.78		State Farm	99	38	68.2	2.81	State Farm	95	49	70.0	2.18		
Benedict				2.21		Stockham				Stockham	98	48	70.2	1.86			
Benkelman				3.23		Strang ^{*1}	94	43	66.9	2.51	Strang ^{*1}	94	53	69.2	2.33		
Blair	97	42	66.8	2.08		Stratton				Stratton	95	41	67.6	2.00			
Bluehill				3.58		Superior ^{*5}	92	40	67.5	4.00	Superior ^{*5}	99	45	71.6	2.14		
Brokenbow				1.38		Tablerock	100	40	70.8	7.11	Tablerock	92	47	68.7	1.35		
Burchard				4.70		Tecumseh ^{b†}	100	37	69.6	4.48	Tecumseh ^{b†}	93	48	69.8	2.12		
Burwell				0.86		Tekamah	97	35	65.8	2.62	Tekamah	94	31	63.8	1.78		
Callaway [†]	92	30	56.0	1.50		Theford ^{*1}	92	38	60.2	1.10	Theford ^{*1}	97	42	65.5	2.17		
Camp Clarke	102	23	61.6	0.30		Turlington [†]	99	41	68.8	3.72	Turlington [†]	98	48	69.7	2.24		
Central City				2.07		Valentine [†]	96	35	62.2	0.64	Valentine [†]	92	37	65.2	2.26		
Cody				0.50		Valparaiso				Valparaiso	96	38	66.3	2.69			
Columbus [†]	98	39	65.5	2.41		Wakefield	96	35	63.8	1.19	Wakefield	97	41	68.6	1.69		
Creighton [†]	95	34	62.6	1.11		Wauweta				Wauweta	100	44	69.6	3.14			
Crete	96	39	68.1	2.25		Weeping Water ^{*1}	94	43	63.5	2.66	Weeping Water ^{*1}	96	36	67.1	0.89		
Culbertson				3.90		Westpoint [†]	95	38	66.2	1.30	Westpoint [†]	99	41	68.5	2.36		
Curtis ^a	99	34	64.6	3.70		Whitman				Whitman	92	38	64.6	1.43			
David City	93	39	65.0	2.20		Wilber [†]	92	44	65.9	3.02	Wilber [†]	97	43	69.8	3.67		
Dawson	98	42	69.5	7.59		Wilsonville [†]	96	36	64.0	4.35	Wilsonville [†]	94	48	66.2	1.03		
Eden				5.77		Wishner				Wishner	99	41	68.5	2.35			
Edgar ^{*1}	98	42	64.2	3.15		Wymore ^{*1}	91	45	65.8	3.49	Wymore ^{*1}	98	44	70.4	2.18		
Elba				0.72		York ^{*1}	100	46	65.5	2.16	York ^{*1}	96	41	68.7	1.50		
Eriksen ^{*1†}	95	42	64.8	2.40		<i>Nevada.</i>				<i>Nevada.</i>							
Ewing [†]				0.72		Austin	84	35	60.5	0.30	Austin	97	44	70.0	1.66		
Fairbury [†]	102	37	67.4	3.73		Battle Mountain ^{*1}	89	45	61.7	0.50	Battle Mountain ^{*1}	97	47	70.0	1.63		
Fairfield				4.50		Beowave ^{*1}	94	40	64.2	0.15	Beowave ^{*1}	99	48	70.8	1.53		
Fairmont [†]	97	35	65.8	3.30		Blaine	85	24	55.3	0.36	Blaine	93	39	65.4	0.65		
Fort Robinson	94	30	62.0	0.76		Bunkerville				Bunkerville							
Frank																	

TABLE II.—*Meteorological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
New Jersey—Cont'd.						New York—Cont'd.						North Carolina—Cont'd.					
Vineland	°	°	°	In s.	In s.	Mount Morris	°	°	°	1.55	In s.	Waynesville †	°	°	°	In s.	In s.
Woodbine	100	43	70.2	2.11	2.46	Newark Valley	95	30	65.7	2.33		Weldon †	84	43	65.4	3.66	
New Mexico.	94	43	71.4	2.46	T.	New Lisbon	88	29	59.6	4.95		North Dakota.	93	51	74.5	2.42	
Albert	96	38	69.1	0.58		Niagara Falls	96	34	64.6	4.41		Amenia	90	25	58.0	0.77	
Albuquerque †	88	42	67.2	0.28		North Hammond †	86	32	58.4	5.35		Aneta	96	25	55.8	1.90	
Alma	93	41	66.6	1.53		North Lake	84	27	58.3	5.17		Ashley †	93	20	58.6	0.58	
Aztec †	90	31	63.6	T.	Number Four †	96	34	65.0	2.05		Berlin †	91	26*	56.6	0.59		
Bernalillo †	90	42	67.6	T.	Nunda	96	34	60.6	3.06		Bottineau	88	28	53.6	1.45		
Bluewater	87	27	59.8	0.00		Ogdensburg	91	34	62.4	4.99		Buxton	85	28	56.4	1.21	
Buckmans	78	18	50.4	0.12	T.	Oneonta	92	32	63.2	4.19		Church's Ferry	89	24	56.3	3.40	
Clayton	97	34	67.0	0.90	0.2	Oxford	91	34	62.4	4.99		Coal Harbor	92	25	57.8	1.94	
Deming *1	92	50	71.1	0.21		Palermo	92	32	63.2	.....		Devils Lake	86	29	56.6	1.52	
East Lasvegas †	85	24	58.8	1.29		Penn Yan	95	37	66.8	1.38		Dickinson	96	24	56.8	0.79	
Eddy	98	38	68.8	0.60		Perry City	91	32	62.2	2.12		Ellendale	95	27	57.6	0.15	
Engle †	90	41	65.1	0.70		Phenix	91	32	62.2	4.20		Fargo †	93	23	57.8	1.23	
Espanola	90	31	63.3	0.22		Pine City	94	36	61.4	1.35		Forman †	93	24	58.5	1.59	
Folsom	89	31	58.6	.....		Plattsburg Barracks †	94	36	61.4	3.37		Fort Berthold	94	24	60.2	2.24	
Fort Bayard	90	45	66.5	1.05		Port Jervis	91	38	65.5	2.14		Fort Yates †	97	.....	.....	0.67	
Fort Union	88	33	58.7	1.35		Poughkeepsie	94	35	65.0	2.21		Fullerton	92	25	56.4	0.64	
Fort Wingate	90	29	65.0	0.21		Primrose	95	42	65.9	1.01		Glenullin	91	23	54.5	.....
Galisteo	86	33	63.4	0.30		Ridgeway	91	41	65.2	3.80		Goetz	93	23	56.2	0.63	
Gallinas Spring †	92	35	64.8	0.70		Rome	91	34	60.4	3.95		Grafton	88	20	56.4	1.89	
Gila	94	44	71.0	1.16		Ronimus	94	40	66.1	2.03		Hamilton	85	27	54.4	3.12	
Hillsboro	103	.....	.....	0.34		Rose	92	33	63.4	3.33		Jamestown †	93	25	55.6	0.74	
Laluz	89	46	70.2	1.53		St. Johnsville	92	33	63.4	3.80		Kelso	88	24	57.8	1.05	
Las Vegas Hot Springs	87	31	60.6	1.29	T.	Saranac Lake	88	29	50.1	4.05		Langdon	84	25	52.4	1.42	
Lordsburg *1	90	56	72.2	0.16		Saratoga Springs	92	36	62.9	3.05		Laramore †	90	29	55.6	1.58	
Lower Penasco	87	35	63.9	1.15		Scottsville	90	31	61.6	2.38		Lishon	91	28	58.8	1.00	
Mesilla Park	95	39	68.3	1.74		Setauket †	90	48	67.3	1.85		McKinney	95	25	54.4	0.68	
Monero	85	19	54.4	0.30		Sherwood	91	31	60.6	3.45		Mayville	86	20	60.0	0.90	
Puerto de Luna	94	38	68.6	1.56		Skaneateles	90	31	61.6	5.53		Medora †	98	23	57.2	0.82	
Raton	89	27	58.6	0.11	1.2	South Cañisteo	90	31	61.6	2.38		Melville	92	25	57.4	0.67	
Rincon †	93	43	70.2	0.90		Southeast Reservoir	88	28	59.8	2.23		Milton †	86	25	57.8	2.75	
Roswell †	97	35	67.8	0.69		South Kortright †	93	33	61.7	2.57		Minnewaukon	91	25	55.8	1.13	
San Marcial	89	.....	.....	0.65		Straits Corners	93	41	64.1	2.54		Minot	88	28	60.4	0.50	
Springer *1	90	24	58.7	0.20		Ticonderoga	91	39	66.6	2.48		Minto †	89	27	56.1	2.02	
White Oaks †	86	34	61.1	1.24		Wappingers Falls	91	39	66.6	1.11		Napoleon †	93	23	57.1	0.42	
Winsors Ranch	79	.....	.....	1.41		Warwick	91	31	63.8	3.68		New England City	94	21	57.5	0.75	
New York.						Watertown	91	31	63.8	6.05		Oakdale †	80	24	55.8	1.50	
Adams				2.92		Waverly †	95	38	63.0	1.87		Pembina	88	27	56.4	2.57	
Addison	93	38	63.4	1.31		Wedgewood	94	37	65.3	1.86		Portal	93	25	53.9	1.26	
Akron				3.51		West Berne	90	38	63.2	2.18		Power †	92	23	58.4	0.72	
Alden	93	33	64.5	3.62		Westfield	90	35	65.6	2.46		Sheyenne	90	24	56.9	0.35	
Alfred	88	32	63.7	1.13		Westpoint †	96	46	68.8	1.37		Steele	92	26	57.3	0.90	
Angelica †	88	36	61.9	1.93		Willets Point	98	48	69.1	1.40		Towner †	92	24	56.7	1.05	
Appleton	94	39	64.4	3.78		North Carolina.						University	85	29	58.8	2.26	
Arcade	87	32	62.3	4.77		Abshers	91	47	71.6	8.32		Valley City †	88	24	57.6	0.91	
Atlanta				1.98		Asheville	90	60	66.0	6.05		Wahpeton	88	27	60.2	1.54	
Auburn	93	39	66.6	5.30		Beaufort †	90	69	77.0	0.90		Willow City	91	25	54.4	1.50	
Avon	95	35	64.8	3.12		Biltmore †	87	49	68.6	6.09		Woodbridge †	87	23	53.0	1.14	
Baldwinsville	92	38	64.2	3.35		Chapel Hill	91	49	73.5	4.74		Ohio.					
Bedford	90	36	64.5	1.55		Edenton	90	53	73.8	3.36		Akron	93	42	67.0	3.56	
Big Sandy *10	87	34	63.9	.....	Experimental Farm	90	51	73.2	3.67		Annapolis b	100	36	68.9	3.00		
Bolivar	89	31	59.8	1.27		Henderson †	90	46	75.0	1.72		Ashtabula	91	40	66.6	2.44	
Bouckville	87	37	61.5	3.74		Hendersonville	87	43	67.8	7.81		Atwater					
Boyd's Corners				2.17		Horse Cove	85	51	67.6	11.16		Bangorville	95	40	67.5	3.97	
Brentwood	94	36	67.6	2.20		Lenoir †	83	50	69.8	8.00		Beillefontaine	93	43	69.1	3.03	
Canajoharie	91	42	66.0	1.74		Linville †	77	41	60.9	9.59		Bement					
Canton	90	32	61.0	6.63		Littleton †	91	45	72.0	2.50		Benton Ridge	94	38	67.8	2.75	
Carmel	93	43	67.4	2.34		Louisburg †	90	51	72.7	4.31		Bethany	101	45	72.5	3.81	
Carvers Falls	91	32	62.2	2.77		Lumbertont	92	56	75.4	4.36		Bigprairie	98	40	66.8	2.31	
Catskill	91	40	65.8	3.77		Man	85	50	69.8	5.16		Binola					
Cedarhill	93	37	66.3	1.29		Marion	85	46	66.5	9.62		Bloomingburg	92	41	70.2	2.80	
Charlotte *10	90	42	64.7	.....	Monroe †	89	54	72.9	4.09		Bowling Green	96	36	67.0	2.84		
Chenango Forks				2.40		Morgantown	91	46	72.8	4.72		Bucyrus	100	44	67.8	1.55	
Cherry Creek				2.17		Roxborot	91	47	73.2	6.41		Cambridge	92	35	65.5	1.72	
Cooperstown †	87	35	61.0	4.20		Settle	88	45	69.2	8.09		Camp Dennison	96	44	71.9	2.91	
Corlanc	91	32	63.7	3.48		Sloane †	92	51	73.4	1.89		Canal Dover	94	36	66.9	1.57	
Dekalb Junction				6.06		Murphy †	90	49	73.4	7.37		Canton †	91	42	67.2</		

TABLE II.—*Meteorological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>Ohio—Cont'd.</i>																	
Hedges	96	36	66.4	1.80	In.	In.	Prudencet	102	39	70.4	1.6	In.	Driftwood	96	36	66.6	In.
Hillhouse	92	36	64.9	2.78			Putnam	102	35	70.7	1.04		Duncannon	92	36	62.5	2.25
Hillsboro†	99	39	71.0	2.97			Sac and Fox Agency	100	42	74.8	1.65		Dushore	92	31	61.6	1.69
Hiram	90	42	66.1	2.53			Stillwater†	97	46	74.6	2.72		Dyberry	92	31	61.6	2.93
Hudson	93	37	65.7	2.20			Waukomis	102	41	74.4	1.13		East Bloomshurg	96	37	66.0	0.13
Jacksonboro	97	45	72.0	3.75			Winnview				1.13		East Mauch Chunk	96	37	66.0	1.44
Kenton	97	40	69.4	2.12			Oregon.						Easton	93	43	67.0	1.18
Killbuck	92	39	66.6	3.26			Albany a	92	42	60.8	3.24		Ellwood Junction†	98	37	67.0	1.07
Lancaster	91	41	68.2	1.99			Albany b						Emporium	90	40	63.8	1.89
Leipsic	98	47	68.2	4.21			Arlington	90	44	65.1	0.16		Everett	91	38	64.6	0.89
Levering	92	34	64.8	2.96			Ashland b	99	35	62.0	0.39		Farrandsville	93	52	70.6	0.79
Logan	99	38	70.4	2.27			Aurora* ¹	92	45	61.4	3.54		Forks of Neshaminy * ¹	93	35	65.8	2.10
Lordstown	92	35	65.5	1.91			Aurora(near)	90	41	60.4	5.05		Franklin	93	35	65.8	2.10
McArthur	94	36	68.2	2.69			Bandon	71	40	57.6	2.14		Frederick				2.62
McConnellsburg†	97	39	68.8	2.39			Bay City†	89	42	58.4	7.37		Girardville				1.62
Mansfield†				3.48			Beulah	93	21	57.6	0.20		Grampian	90	36	64.6	1.14
Marietta b	91	44	69.4	3.69			Brownsville* ¹	96	47	62.6	2.37		Greensboro†	95	40	67.2	1.50
Marion	95	39	69.1	1.24			Burns	92	13	54.6	T		Greenville	86	40	63.3	1.76
Medina	95	39	67.4	2.97			Burns (near) *	93	25	59.6	T		Hamburg	99	39	69.4	1.14
Mifflordton	95	35	66.4	1.58			Cascade Locks	86	44	62.5	6.78		Hawley	100	36	65.6	3.17
Milligan	97	34	67.8	1.67			Comstock*	96	44	60.0	1.73		Hewis Island Dam				1.08
Millport	92	36	68.6	1.85			Coquille River						Hollidaysburg ^d	92	35	63.7	0.73
Montpelier	94	40	65.4	8.46			Corvallis	94	38	61.5	3.15		Huntingdon a†	98	35	66.3	0.95
Napoleon	95	39	64.8	3.96			Dayville†	95	28	60.6	0.16		Huntingdon b				0.67
Neapolis				4.27			Ella						Indiana	94	41	67.5	1.70
New Alexandria	87	43	66.8	2.55			Fairview	90	42	61.0	1.54		Irwin				1.41
New Berlin	98	40	66.8	2.45			Falls City	90	42	60.8	5.08		Johnstown†	94	41	67.0	2.04
New Bremen				0.83			Gardiner	82	43	59.8	3.80		Karthaus				0.21
New Holland	95	40	69.8	2.70			Glenore	95	42	60.2	8.94		Keating				0.96
New Paris	92	44	69.8	3.19			Government Camp	88	29	53.2	6.89	12.0	Kennett Square	95	44	68.8	3.95
New Waterford	93	38	66.0	1.95			Grants Pass a†	100	37	62.4	0.57		Lansdale				1.81
North Lewisburg	98	35	69.0	4.55			Happy Valley	91	22	55.0	0.50		Lawrenceville				1.98
North Royalton	97	41	68.0	2.82			Heppner	92	36	59.5	0.36		Lebanon	95	40	68.1	0.89
Norwalk	95	40	67.2	3.13			Hood River (near)	87	43	60.6	2.74		Leroy	90	38	64.0	0.81
Oberlin	95	41	68.0	3.27			Jacksonville	96	38	62.4	0.45		Lewisburg	96	38	66.5	0.93
Ohio State University	93	36	68.4	1.36			Joseph	86	38	54.4	0.58		Lock Haven a†	100	40	67.7	0.88
Orangeville	91	34	63.8	3.10			Junction City* ¹	96	48	62.3	1.49		Lock Haven b				0.36
Ottawa	94	45	68.2	3.33			Klamath Falls	93	30	60.4	1.82		Lycippus	90	40	67.6	2.03
Pataskala†	95	35	68.0	1.18			Lafayette* ¹	94	46	60.3	3.80		Mifflin				0.90
Perry				3.77			Lagrange	95	35	59.9	0.92		Oil City†				2.11
Philo	97	40	68.8	1.61			Lakeview†	89	18	58.4	T	0.2	Ottsville				2.09
Pittsburg	93	40	69.0	2.46			Langlois	83	42	61.4	3.93		Parker				1.23
Pomeroy	96	41	72.5	1.14			Lone rock	92	31	57.3	0.19		Philadelphia b	96	51	71.2	1.98
Portsmouth†				1.97			Merlin	93	38	61.4	4.63		Point Pleasant				1.23
Richwood	91	45	70.3	1.97			Monmouth c* ¹	98	44	62.1	2.43		Pottstown	95	47	69.8	1.85
Ridgeville Corners	97	40	72.2	1.41			Monmouth b	93	39	61.8	3.35		Quakertown	97	38	67.6	2.70
Riley	90	45	70.2	2.95			Monroe	91	43	63.0	2.54		Reading ²	97	67.2		1.08
Blitzman	92	35	63.7	2.88			Moro	88	30	59.2	0.38		Renovo a				0.48
Rockyridge	96	45	69.4	3.85			Mount Angel†	94	44	62.7	3.73		Renovo b	93	38	65.1	0.59
Rosewood	93	40	67.9	3.46			Nehalem						Ridgway†				1.16
Seaman	102	33	69.6	1.89			Newberg	91	41	61.6	5.18		Saegebertown	93	30	64.5	3.81
Shenandoah	97	39	66.2	5.62			Newbridge	87	29	52.9	0.36		Scranton	95	35	65.6	2.47
Sidine b	97	32	69.8	2.82			Newport	77	43	56.6	3.98		Seisholtzville				1.83
Sinking Spring†	93	45	69.6	3.93			Pendleton	97	34	62.2	0.55		Selinsgrove	96	39	66.8	0.91
Somersett†	95	48	71.5	1.16			Placer						Shawmont				1.66
Springboro				2.65			Prineville	98	21	60.6	0.03		Shinglehouse	92	32	61.0	1.94
Strongsville				2.72			Ridgeway†						Sinnamahoning				0.92
Sylvania	94	37	63.2	2.29			Riverside	99					Smethport	91	34	61.8	2.40
Thurman	94	45	70.6	1.65			Salem b†	91	40	61.4	1.13		Smiths Corners				2.03
Tiffin†	92	42	67.6	4.89			Sheridan	96	45	64.1	0.90		Somerset	92	34	62.0	1.87
Upper Sandusky	101	37	69.2	3.64			Silver Lake	93	19	54.6	0.20		South Bethlehem	96	44	68.2	
Urbania	90	38	68.0	3.83			Silverton	94	48	63.1	3.03		South Eaton	91	39	64.1	1.90
Vanceburg	92	45	70.0	2.40			Siskiyou* ¹	92	40	67.6	0.20		State College	93	39	64.8	0.93
Vanwert	96	39	69.0	4.04			Sparta	86	28	58.4	1.30		Sunbury				0.85
Vermillion	92	42	66.7	3.66			Springfield* ¹	93	45	60.8	1.82		Swarthmore	93	46	68.0	1.98
Vickery	96	40	68.0	2.99			Stafford	93	44	62.8	5.90		Towanda	93	37	63.8	1.96
Walnut				1.84			The Dalles†	91	42	63.6	0.85		Trout Run				1.59
Warren	94	36	65.5	1.77			Umatilla						Uniontown	91	41	67.2	1.64
Warsaw	98	34	68.0	1.60			Vale	92	19	58.8	0.15		Warren†	88	37	63.4	2.03
Wauseon	96	37	67.2	3.22			Vernonia	103	35	61.6	4.94		Wellsboro†	93	34	63.8	2.24
Waverly	96	41	71.4	2.44			West Fork* ¹	96	44	61.1	1.16		West Chester	94	47	69.1	1.74
Waynesville	94	39	69.0	2.75			Weston	98	37	60.6	0.75		West Newton†				2.84
Wellington	94	40	67.3	2.29			Williams	95	33	59.2	0.80		White Haven	94	36	63.0	1.01
Westerville	89	39	67.5	1.56			Pennsylvania.						Wilkesbarrel	92	37	64.9	3.44
Willooughby				2.43			Altoona	93	38	65.1	0.76		Williamsport	94	40	66.2	0.81
Wooster b†	90	38	66.2	2.15			Aqueduct	100	40	69.2	1.11		York†	94	40	67.8	1.82
Youngstown	94	40	66.4	1.95			Athens	97	36	64.2	1.64		Rhode Island.				
Zanesville†				1.80			Beaver Dam						Bristol	89	46	65.6	1.58
<i>Oklahoma.</i>							Bethlehem						Kingston	92	38	64.4	2.11
Anadarko†	106	38	75.1														

TABLE II.—*Meteorological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>South Carolina—Cont'd.</i>	o	o	o	Ins.	Ins.	<i>Tennessee—Cont'd.</i>	o	o	o	Ins.	Ins.	<i>Texas—Cont'd.</i>	o	o	o	Ins.	Ins.
Darlington	.....	.....	.....	4.36	.....	Covington	97	53	75.0	3.86	.....	Huntsville†	94	59	78.2	0.98	.....
Edisto†	.....	.....	.....	2.24	.....	Decatur†	90	50	72.4	7.01	.....	Jacksonville	93	51	77.3	3.43	.....
Evingham†	.....	.....	.....	4.21	.....	Dover	100	47	75.2	4.11	.....	Jasper	94	61	79.2	1.44	.....
Florence	93	55	76.0	5.21	6.03	Dyersburg	95	56	75.2	4.35	.....	Junction	.....	.....	.....	1.20	.....
Gaffney†	92	60	78.6	.....	.....	Elizabethton†	93	45	71.5	4.27	.....	Kent	96	49	75.2	1.85	.....
Georgetown†	92	60	78.6	5.21	.....	Elk Valley	92	48	71.8	4.86	.....	Kerrville	96	49	75.2	1.50	.....
Gillisonville	93	57	76.9	2.70	.....	Erasmus	89	38	68.8	3.48	.....	Lampasas†	99	49	77.9	0.95	.....
Greenville†	90	52	72.1	6.31	.....	Florence†	91	49	73.9	3.76	.....	Llano*† ⁶	99	59	78.9	0.50	.....
Greenwood	91	51	74.2	4.44	.....	Franklin	91	47	73.4	3.88	.....	Longview†	98	54	77.8	3.77	.....
Holland	88	52	72.2	5.95	.....	Grace* ⁵	92	44	73.0	4.02	.....	Luling†	96	60	80.0	2.15	.....
Kingtree a†	96	55	76.2	3.81	.....	Greeneville†	86	47	69.6	3.56	.....	Mann	102	59	79.2	1.15	.....
Kingtree b†	.....	.....	.....	3.81	.....	Harriman	89	49	71.8	6.00	.....	Marshall	91	57	77.4	3.75	.....
Little Mountain	94	49	74.2	3.31	.....	Hohenwald†	94	49	74.3	2.38	.....	Menardville	98	49	72.4	1.63	.....
Longshore†	52	52	52	2.57	.....	Jackson	94	48	74.4	4.45	.....	Mount Blanco†	99	43	69.6	0.05	.....
Mount Carmel†	.....	.....	.....	10.64	.....	Johnsonville	98	44	75.0	2.35	.....	New Braunfels†	92	57	77.0	1.83	.....
Pinopolis* ¹	87	62	75.2	3.45	.....	Jonesboro*1	85	48	68.3	4.05	.....	Panter	.....	.....	.....	0.80	.....
Port Royal†	88	63	77.8	2.63	.....	Kingston†	.....	.....	8.31	.....	.....	Paris	100	50	77.3	0.85	.....
St. Georges†	92	58	76.6	3.00	.....	Lafayette* ⁵	94	50	73.4	4.05	.....	Point Isabel* ¹	90	70	82.0	4.39	.....
St. Matthews†	94	57	75.8	3.20	.....	Lewisburg	.....	.....	3.93	.....	.....	Rheinland†	106	42	76.4	1.50	.....
St. Stephen†	.....	.....	.....	3.47	.....	Liberty†	92	50	74.2	1.73	.....	Roby	102	39	73.0	4.91	.....
Santuck†	90	51	73.4	2.60	.....	Lynnyville†	92	50	73.8	3.93	.....	Rockport* ¹	90	70	82.8	.....	.....
Shaws Fork	94	48	73.6	3.01	.....	McKenzie†	93	51	75.2	4.50	.....	Rocksprings	.....	.....	.....	1.95	.....
Smiths Millst.	.....	.....	.....	5.76	.....	McMinnville†	92	44	72.6	3.85	.....	Runge†	100	64	82.2	1.85	.....
Society Hill†	90	56	74.6	3.17	.....	Madison	96	42	74.0	5.90	.....	San Antonio	97	62	81.4	1.41	.....
Spartanburg	89	51	73.0	5.44	.....	Maryville* ⁵	88	52	71.6	6.39	.....	Sanderson	93	49	74.5	0.00	.....
Statesburg†	92	57	76.1	2.58	.....	Milan	98	50	76.2	3.64	.....	San Marcos* ⁶	94	54	77.6	2.30	.....
Summerville	89	58	75.3	3.85	.....	Nashville (near)	96	53	75.6	4.82	.....	Temple a	94	59	77.6	1.81	.....
Trenton	93	56	71.1	5.58	.....	Newport†	94	49	71.4	3.32	.....	Temple b	96	55	77.3	0.70	.....
Trial	91	55	74.6	2.99	.....	Nunnelly	94	48	73.6	2.70	.....	Tyler	95	54	77.7	1.76	.....
Walhalla	90	54	71.1	5.38	.....	Oak Hill	91	46	72.6	3.65	.....	Valentine†	91	50	72.8	0.00	.....
Walling	91	50	73.6	2.27	.....	Palmetto†	93	47	74.4	4.61	.....	Victoria	.....	.....	.....	1.63	.....
Winnabro	90	54	73.4	1.33	.....	Pope	93	45	75.0	2.53	.....	Waco	97	53	78.9	0.46	.....
Yemassee†	93	59	77.7	7.98	.....	Rogersville†	87	47	70.3	1.76	.....	Water Valley	.....	.....	.....	3.02	.....
Yorkville	91	58	74.1	4.64	.....	Rugby	87	43	69.6	3.67	.....	Waxahachie†	99	50	78.0	1.90	.....
<i>South Dakota.</i>	.....	.....	.....	.....	.....	Savannah	98	48	75.7	3.31	.....	Weatherford†	99	53	76.6	1.37	.....
Aberdeen†	101	26	60.2	0.80	.....	Sewanee†	87	52	69.3	6.00	.....	Wichita Falls†	.....	.....	.....	0.29	.....
Armour	99	35	63.4	0.30	.....	Silverlake	83	41	65.2	4.40	.....	<i>Utah.</i>	.....	.....	.....	.....	.....
Ashcroft†	100	23	59.0	1.38	.....	Springdale	90	49	71.4	3.39	.....	Alpine†	.....	.....	.....	0.05	.....
Bowdrie	100	19	57.6	0.22	.....	Springfield	97	43	74.6	3.35	.....	Blue Creek* ¹	87	38	59.6	T.	.....
Brookings†	96	27	60.5	1.31	.....	Sylvia	95	45	74.0	3.14	.....	Brigham	.....	.....	.....	0.21	.....
Canton	94	33	63.2	0.63	.....	Tazewell	.....	.....	2.92	.....	.....	Cisco†	90	33	66.8	0.00	.....
Centerville	.....	.....	.....	0.71	.....	Tellico Plains†	93	53	73.0	4.44	.....	Corinne	90	28	63.4	0.26	.....
Chamberlain†	103	34	65.8	0.61	.....	Tracy City	85	49	68.7	4.77	.....	Ferron	97	40	69.0	0.00	.....
Chandler	105	33	64.9	0.31	.....	Trenton	94	48	73.8	5.04	.....	Fillmore†	99	28	64.4	T.	.....
Clark	.....	.....	.....	1.34	.....	Tullahoma†	90	48	72.4	3.30	.....	Fort Duchesne†	90	26	59.7	0.08	.....
Desmet	97	28	60.2	1.91	.....	Union City	93	49	74.8	5.00	.....	Frisco	85	41	61.2	0.00	.....
Doland	27	27	59.7	1.52	.....	Waynesboro	95	43	73.2	2.94	.....	Giles	93	29	65.4	T.	.....
Farmingdale	.....	.....	.....	1.34	.....	Wildersville	90	49	74.2	3.27	.....	Huntsville	.....	.....	.....	0.26	.....
Flandreau	99	29	63.2	1.15	.....	Yukon	90	51	73.4	3.37	.....	Kelton* ¹	88	33	66.1	T.	.....
Forestburg†	100	24	61.8	1.15	.....	<i>Texas.</i>	.....	.....	3.85	.....	.....	Levan†	85	32	60.1	0.00	.....
Fort Meade†	96	28	59.8	1.80	.....	Alvin	.....	.....	1.20	.....	.....	Loa	82	18	52.3	0.09	.....
Gannvalley	101	30	62.7	0.50	4.0	Anna	.....	.....	3.00	.....	.....	Logan	89	36	62.5	0.18	.....
Gary	98	36	61.4	1.42	.....	Anson	.....	.....	4.04	.....	.....	Minersville	89	36	63.6	0.11	.....
Goudyville	101	25	59.3	0.59	.....	Arthur City†	.....	.....	4.04	.....	.....	Moab†	92	32	66.3	0.00	.....
Harney	96	23	55.7	1.35	.....	Austin a* ⁵	94	55	77.6	0.50	.....	Mount Pleasant†	95	33	64.7	0.00	.....
Hatch City†	102	31	63.0	0.18	.....	Austin b* ⁵	94	54	76.6	1.64	.....	Ogden c* ¹	89	43	63.6	0.30	.....
Hot Springs	90	31	57.7	1.10	.....	Ballinger†	100	48	71.8	4.97	.....	Fairplay	89	36	65.5	0.00	.....
Howard†	100	29	63.0	1.10	.....	Beaumont	100	62	78.1	3.10	.....	Parowan†	87	35	62.3	0.25	.....
Interior	110	28	63.6	0.70	.....	Beeville†	101	62	82.2	0.94	.....	Pinto	84	28	56.2	0.00	.....
Ipwich	98	24	57.8	0.42	.....	Blanco†	.....	.....	2.50	.....	.....	Promontory* ¹	84	40	63.3	.....	.....
Kimbball†	100	32	64.0	0.70	.....	Boerne* ¹	95	58	76.1	2.10	.....	Provo	96	36	66.5	0.00	.....
Mellette†	102	25	62.0	1.15	.....	Brazoria†	91	60	78.8	4.43	.....	Ridgefield†	93	12	55.0	0.00	.....
Mennio†	100	31	64.9	0.15	.....	Brenham†	99	59	80.0	1.64	.....	St. George†	102	40	72.0	0.00	0.2
Millbank	94	32	62.0	0.95	.....	Brighton	100	60	77.9	3.00	.....	Scipio†	87	31	60.6	0.00	.....
Mitchell†	99	29	63.0	0.61	.....	Brownwood	.....	.....	0.70	.....	.....	Soldier Summit	85	20	52.1	0.02	.....
Montrose	97	32	63.0	0.00	.....	Burnet† ⁶	96	55	75.9	1.08	.....	Terrace* ¹	80	25	56.0	T.	.....
Nowlin†	101	30	62.7	0.04	.....	Coleman	99	49	75.2	1.80	.....	Tooele†	88	37	64.6	0.13	.....
Parker†	92	26	61.0	0.34	.....	College Station ²	93	48	78.4	0.92	.....	Tropic	84	28	57.9	T.	.....
Plankinton†	100	32	61.7	0.56	.....	Colorado	.....	.....	4.08	.....	.....	Vernal	88	29	58.7	1.04	.....
Redfield	101	24	61.1	1.43	12.0	Columbiat	91	64	78.8	2.68	.....	Woodruff	85	18	51.0	0.05	.....
Rochford	92	28	62.0	1.72	.....	Conroe	98	56	78.8	1.93	.....	Vermont	.....	.....	.....	.....	.....
Rosebud	100	33	61.0	0.35	.....	Corsicanab†	100	55	78.4	1.53	.....	Bennington	91	35	64.3	4.85	

TABLE II.—*Meteorological record of voluntary and other cooperating observers*—Continued.

TABLE III.—Data furnished by the Canadian Meteorological Service, September, 1898.

Stations.	Pressure.			Temperature.			Precipitation.			Stations.	Pressure.			Temperature.			Precipitation.			
	Mean not reduced.	Mean reduced.	Departure from normal.	Mean.	Departure from normal.	Mean maximum.	Mean minimum.	Total.	Departure from normal.	Depth of snow.	Mean not reduced.	Mean reduced.	Departure from normal.	Mean.	Departure from normal.	Mean minimum.	Total.	Departure from normal.	Depth of snow.	
St. Johns, N. F.....	In.s.	In.s.	In.s.	— .16	53.4	— 0.6	60.5	46.2	2.42	...	In.s.	In.s.	In.s.	Saugeen, Ont.....	In.s.	In.s.	In.s.	...	In.s.	...
Sydney, C. B. I.....	29.69	29.88	— .08	57.1	+ 0.6	65.9	48.3	2.76	— .48	...	29.30	30.00	— .04	63.0	+ 5.5	72.1	53.9	2.62	— 0.89	
Halifax, N. S.....	29.91	29.95	— .08	59.4	+ 1.8	68.2	50.6	4.16	+ 0.61	...	29.30	29.98	— .05	60.7	+ 4.7	70.2	51.2	2.44	— 1.89	
Grand Manan, N. B.....	29.90	30.03	— .03	57.5	+ 1.4	64.1	50.9	3.85	+ 2.08	...	29.18	29.87	— .09	55.9	+ 3.7	65.4	46.4	5.40	+ 1.33	
Yarmouth, N. S.....	29.95	30.00	— .04	57.5	+ 0.5	63.0	48.1	4.60	+ 2.01	...	29.00	29.82	— 10	55.6	+ 3.1	67.3	43.9	2.50	+ 0.50	
Charlottet'n, P. E. I.....	29.92	29.98	— .06	57.7	+ 0.4	63.6	51.7	2.50	— .36	...	29.07	29.86	— .06	53.0	+ 2.5	64.8	41.3	2.42	+ 1.00	
Chatham, N. B.....	29.88	29.95	— .06	56.4	+ 1.0	65.6	47.2	1.40	— 1.32	...	27.61	29.84	— .08	53.0	+ 1.9	65.6	40.4	3.37	+ 2.23	
Father Point, Que.....	29.89	29.92	— .06	48.7	— 1.7	57.1	40.3	2.23	— .57	...	Medicine Hat, Assin.
Quebec, Que.....	29.64	29.96	— .06	56.1	+ 1.0	63.9	48.2	4.77	+ 1.10	...	Swift Current, Assin.	27.34	29.89	— .05	54.4	+ 1.3	67.8	41.0	0.90	— 0.23
Montreal, Que.....	29.78	29.98	— .05	60.3	+ 1.9	67.8	52.9	6.08	+ 2.55	...	Calgary, Alberta.....
Rockliffe, Ont.....	29.46	29.96	— .07	58.6	+ 4.9	70.1	47.0	2.94	— 0.76	...	Banff, Alberta.....	25.33	29.94	...	48.0	...	60.6	35.4	1.72	0.
Ottawa, Ont.....	29.67	29.98	...	61.0	+ 3.6	72.3	49.8	3.48	...	Edmonton, Alberta.....	27.55	29.82	— .07	52.8	+ 3.5	67.0	38.6	0.82	— 0.67	
Kingston, Ont.....	29.69	30.00	— .04	63.2	+ 3.2	71.1	55.3	4.75	+ 1.98	...	Prince Albert, Sask.....	29.25	29.75	...	50.8	+ 2.4	62.9	38.7	2.21	...
Toronto, Ont.....	29.65	30.08	— .03	64.2	+ 5.2	73.9	54.6	2.79	+ 0.04	...	Battleford, Sask.....	28.13	29.85	...	53.5	+ 1.7	67.9	39.1	0.46	...
White River, Ont.....	28.59	29.92	— .07	53.3	+ 3.0	64.1	43.4	3.11	+ 0.03	...	Kamloop, B. C.	28.62	29.88	...	60.5	...	72.2	48.0	0.72	...
Port Stanley, Ont.....	29.40	30.04	— .01	63.6	+ 4.1	72.7	54.4	2.79	+ 0.14	...	Esquimalt, B. C.	29.89	29.92	...	57.5	+ 4.1	67.0	47.9	1.79	...
										Hamilton, Bermuda.....	29.96	30.12	+ .05	79.9	+ 2.5	85.2	74.6	3.29	...	

TABLE IV.—Mean temperature for each hour of seventy-fifth meridian time, September, 1898.

Stations.	Mean.																									
	1 a. m.	2 a. m.	3 a. m.	4 a. m.	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.	9 p. m.	10 p. m.	11 p. m.			
Bismarck, N. Dak.	53.2	52.6	51.2	50.1	48.8	47.7	47.2	46.7	49.4	53.2	58.3	62.0	64.6	67.0	68.6	69.8	68.5	65.5	61.7	58.9	56.6	54.7	58.			
Boston, Mass.	62.3	61.5	60.9	60.4	59.9	59.6	60.6	63.0	64.7	66.9	68.9	70.5	71.2	71.9	71.6	71.4	69.9	68.3	66.5	64.5	63.8	63.1	62.5	65.		
Buffalo, N. Y.	63.5	63.1	62.9	62.6	62.1	62.0	62.1	63.9	65.6	67.2	68.5	69.8	70.6	71.1	71.5	71.7	71.3	70.2	68.7	67.6	66.2	65.5	64.7	64.0	66.	
Chicago, Ill.	65.3	65.0	64.6	64.1	63.7	63.2	62.8	64.0	64.9	66.3	67.0	67.8	68.8	69.6	70.2	70.3	70.4	69.4	68.6	67.6	67.0	66.3	65.5	65.5	65.	
Cincinnati, Ohio	68.7	67.8	66.2	65.4	61.7	63.9	63.5	65.2	67.3	70.0	73.2	76.1	78.3	79.8	80.6	80.5	80.3	79.3	77.3	75.0	73.1	71.7	70.2	69.4	72.	
Cleveland, Ohio	64.1	63.8	62.7	62.2	62.0	61.1	60.7	62.3	65.1	68.0	69.3	70.1	71.2	72.4	72.4	72.1	70.9	69.7	67.4	66.9	65.4	65.	64.5	65.	65.	
Detroit, Mich.	63.7	63.2	62.5	61.7	61.0	60.8	60.8	61.7	64.7	67.5	70.0	71.3	72.6	73.6	74.4	74.2	73.2	71.7	69.5	68.1	66.4	65.6	64.7	64.1	66.	
Dodge, Kans.	62.4	61.4	60.3	59.3	58.3	57.8	58.9	56.1	58.8	63.2	67.8	71.8	74.9	77.1	78.3	79.8	79.4	77.1	72.6	69.5	67.0	65.1	63.7	67.	67.	
Eastport, Me.	51.8	51.5	51.3	51.0	50.9	51.2	51.2	52.4	53.8	56.1	57.4	59.2	59.6	60.5	60.9	59.5	56.6	55.2	54.6	53.8	53.3	52.6	52.0	55.	55.	
Galveston, Tex.	78.9	78.8	78.4	78.3	77.8	77.5	77.2	77.5	78.5	79.1	80.8	82.3	82.7	83.1	83.5	82.8	82.0	81.2	80.6	80.1	79.9	79.4	79.0	80.	80.	
Havre, Mont.	54.2	52.7	51.0	49.3	47.8	46.9	46.0	45.4	44.9	48.3	53.6	58.1	61.9	65.2	67.3	69.1	70.5	71.1	70.2	67.8	63.8	60.0	57.4	55.4	57.	
Kansas City, Mo.	67.8	67.3	66.4	65.4	64.8	64.1	63.6	64.0	65.4	68.1	71.1	73.5	75.6	77.4	78.4	79.1	78.3	78.8	77.3	75.4	73.1	70.7	69.6	68.6	67.	
Key West, Fla.	80.4	80.1	79.7	79.4	79.6	78.9	80.4	81.4	83.3	84.4	85.0	85.2	84.8	85.2	84.9	84.4	83.5	82.6	81.7	81.5	80.6	80.2	80.4	80.5	82.	
Memphis, Tenn.	73.8	72.6	71.6	70.9	70.3	69.6	69.1	70.3	72.1	74.3	76.8	78.8	80.5	81.5	82.7	83.1	82.8	82.2	80.6	79.8	77.8	76.5	75.0	74.1	74.	
New Orleans, La.	76.2	75.9	75.6	75.5	75.3	75.1	75.0	76.1	77.8	78.9	80.8	82.1	82.8	83.1	83.5	83.0	82.7	81.7	80.6	79.4	77.9	77.3	76.8	76.2	78.	
New York, N. Y.	65.7	65.0	64.1	63.6	63.5	62.9	63.8	64.7	66.9	69.5	71.4	72.8	73.7	73.9	74.4	73.4	72.6	70.9	69.7	68.8	68.0	67.2	66.4	65.6	65.	
Philadelphia, Pa.	66.7	66.0	65.4	65.0	64.5	63.9	64.9	67.0	69.2	71.6	73.8	75.6	77.3	78.5	79.0	79.7	78.7	77.7	75.0	72.9	71.3	69.5	68.5	67.6	66.9	70.
Pittsburg, Pa.	65.6	64.9	64.2	63.5	63.0	62.5	62.6	63.5	66.9	69.7	71.9	74.1	75.2	76.5	77.3	77.4	74.4	76.5	74.2	72.4	70.4	68.7	67.5	66.3	68.	
Portland, Oreg.	62.9	61.4	60.2	59.0	58.0	57.3	56.2	55.7	54.9	54.6	55.8	57.5	59.8	62.2	65.0	66.7	68.4	69.6	66.9	67.0	69.4	68.5	66.6	64.9	63.9	62.
St. Louis, Mo.	70.9	69.8	69.0	68.3	67.1	66.7	66.5	67.5	69.4	71.8	74.8	77.0	79.2	79.9	80.9	81.6	81.4	80.2	78.6	76.6	75.0	73.6	72.3	71.2	73.	
St. Paul, Minn.	60.5	58.6	57.0	55.9	54.9	53.9	53.0	53.3	54.8	58.4	62.6	65.9	69.4	71.2	73.0	73.7	74.1	73.8	72.2	69.2	66.8	65.0	62.9	61.2	62.	
Salt Lake City, Utah	62.0	61.0	59.3	58.3	58.4	56.4	55.5	56.4	55.1	59.5	63.6	68.8	71.8	73.8	76.0	76.9	77.6	77.2	76.8	75.3	70.3	66.8	64.3	62.6	66.	
San Diego, Cal.	66.4	65.8	65.2	64.8	64.3	64.1	63.8	63.7	63.6	64.2	66.8	69.7	71.1	71.6	72.0	72.3	72.6	72.5	71.8	70.3	68.8	68.0	67.2	68.	68.	
San Francisco, Cal.	55.9	55.5	55.0	54.7	54.8	54.8	55.0	55.4	54.7	54.6	55.7	57.3	59.2	60.6	62.4	62.9	63.1	62.4	61.6	61.0	59.2	57.8	56.8	56.2	57.	
Savannah, Ga.	73.7	73.5	73.3	72.8	72.8	72.0	72.6	74.0	77.0	79.6	81.3	82.7	83.0	82.8	82.2	81.9	80.8	79.1	77.3	76.5	75.6	75.1	74.8	74.3	77.	
Washington, D. C.	65.4	65.0	64.1	63.7	62.8	62.5	62.9	62.4	67.0	73.0	75.6	77.5	79.1	80.0	80.4	79.6	79.0	77.1	73.6	70.5	69.3	68.1	66.7	65.5	65.	
West Indies.																										
Basseterre, St. Kitts	78.3	78.1	78.0	78.2	77.8	79.7	81.6	82.8	83.8	84.7	84.8	84.7	84.0	83.8	82.6	82.0	80.4	80.2	79.5	78.7	78.6	78.6	78.3	78.5	78.3	80.
Santo Domingo, S. D.	72.3	73.0	72.6	72.3	72.1	72.5	74.1	77.5	80.2	82.7	84.3	84.1	84.4	83.5	81.6	80.5	79.8	78.9	77.9	76.9	75.8	75.1	74.6	74.0	77.	
Willemstad, Curaçao	79.0	78.6	78.1	78.0	78.0	79.0	81.2	82.5	83.3	83.7	84.3	85.2	85.8	86.2	86.1	85.2	83.1	81.4	80.8	80.3	79.8	79.5	79.3	79.3	81.	

TABLE V.—Mean pressure for each hour of seventy-fifth meridian time, September, 1898.

Stations.												Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.	9 p. m.	10 p. m.	11 p. m.	Midnight.	Mean.	
	1 a. m.	2 a. m.	3 a. m.	4 a. m.	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.															
Bismarck, N. Dak....	28.194	.196	.197	.196	.198	.200	.204	.208	.216	.230	.223	.220	.207	.194	.181	.108	.160	.154	.153	.152	.161	.172	.179	.184	.184	
Boston, Mass.....	29.898	.893	.892	.894	.901	.911	.919	.924	.923	.925	.917	.909	.894	.882	.874	.874	.877	.880	.892	.904	.908	.910	.908	.907	.906	
Buffalo, N.Y.....	29.218	.217	.216	.219	.227	.235	.245	.247	.248	.245	.238	.234	.212	.197	.183	.178	.177	.179	.187	.200	.206	.210	.214	.217	.217	
Chicago, Ill.....	29.142	.139	.140	.141	.139	.149	.160	.169	.173	.182	.181	.181	.172	.161	.148	.140	.134	.132	.130	.131	.139	.143	.145	.145	.145	
Cincinnati, Ohio....	29.406	.407	.405	.407	.408	.416	.424	.432	.444	.439	.434	.424	.410	.396	.377	.372	.369	.374	.378	.387	.396	.400	.401	.405	.404	
Cleveland, Ohio....	29.236	.235	.234	.235	.240	.248	.257	.260	.263	.260	.256	.251	.239	.222	.213	.206	.205	.208	.212	.222	.223	.225	.228	.227	.227	
Detroit, Mich.....	29.261	.259	.255	.257	.260	.265	.276	.279	.284	.285	.293	.269	.260	.247	.234	.229	.233	.237	.242	.250	.258	.261	.262	.262	.262	
Dodge, Kans.....	27.391	.393	.391	.390	.389	.391	.394	.400	.413	.419	.413	.418	.408	.392	.374	.356	.347	.344	.346	.351	.363	.378	.383	.389	.389	
Eastport, Me.....	29.898	.891	.893	.896	.908	.912	.918	.923	.924	.920	.914	.907	.896	.887	.878	.879	.884	.894	.898	.904	.907	.904	.903	.903	.903	
Galveston, Tex....	29.885	.881	.876	.872	.872	.877	.886	.891	.893	.892	.891	.894	.896	.881	.864	.851	.847	.844	.847	.853	.867	.877	.880	.878	.878	
Havre, Mont.....	27.286	.288	.291	.291	.293	.295	.297	.305	.311	.311	.312	.308	.298	.287	.276	.265	.264	.248	.248	.250	.257	.267	.272	.277	.277	
Kansas City, Mo....	28.984	.985	.981	.981	.985	.991	.999	.004	.017	.022	.024	.019	.007	.000	.074	.939	.948	.947	.948	.949	.949	.950	.950	.950	.950	
Key West, Fla.....	29.966	.959	.948	.947	.949	.953	.959	.960	.978	.968	.966	.957	.962	.947	.930	.921	.925	.937	.952	.954	.971	.971	.967	.967	.967	
Memphis, Tenn.....	29.610	.606	.606	.608	.614	.627	.637	.645	.651	.655	.648	.632	.616	.596	.584	.577	.575	.578	.576	.584	.595	.600	.603	.603	.603	
New Orleans, La....	29.942	.937	.932	.928	.929	.937	.947	.951	.961	.967	.969	.964	.949	.931	.913	.908	.902	.906	.911	.925	.934	.939	.937	.937	.937	
New York, N. Y....	29.735	.732	.731	.732	.737	.744	.751	.759	.764	.763	.756	.749	.738	.722	.713	.714	.712	.713	.722	.730	.738	.742	.743	.743	.743	
Philadelphia, Pa....	29.958	.954	.951	.954	.958	.965	.974	.985	.990	.991	.985	.974	.958	.942	.930	.922	.923	.924	.934	.947	.955	.961	.961	.963	.963	
Pittsburg, Pa.....	29.163	.162	.164	.165	.172	.177	.178	.215	.213	.212	.211	.197	.187	.181	.174	.165	.157	.155	.155	.154	.154	.156	.162	.163	.163	
Portland, Oreg....	29.787	.793	.797	.796	.797	.798	.798	.799	.802	.807	.814	.816	.817	.815	.807	.799	.786	.778	.772	.765	.768	.764	.775	.783	.783	
St. Louis, Mo....	29.414	.415	.416	.417	.419	.422	.433	.447	.453	.459	.454	.447	.435	.418	.400	.387	.386	.384	.383	.387	.401	.407	.412	.413	.413	
St. Paul, Minn....	29.063	.060	.064	.065	.068	.075	.082	.090	.092	.093	.091	.081	.067	.052	.038	.025	.016	.010	.010	.014	.022	.032	.043	.049	.049	
Salt Lake City, Utah	25.631	.636	.639	.645	.649	.651	.656	.660	.680	.685	.692	.695	.684	.671	.652	.634	.617	.607	.598	.594	.596	.607	.613	.620	.620	
San Diego, Cal....	29.781	.782	.778	.776	.772	.770	.770	.775	.783	.793	.793	.808	.804	.798	.794	.771	.758	.752	.746	.745	.746	.755	.771	.778	.778	
San Francisco, Cal....	29.792	.795	.799	.796	.795	.794	.795	.801	.811	.821	.828	.836	.833	.832	.821	.809	.793	.785	.772	.767	.777	.782	.787	.787	.787	
Savannah, Ga.....	29.981	.975	.972	.970	.976	.978	.988	.999	.006	.016	.021	.015	.004	.000	.073	.957	.952	.953	.956	.964	.974	.985	.987	.982	.982	
Washington, D. C....	29.966	.965	.965	.968	.977	.986	.000	.005	.010	.011	.005	.998	.974	.952	.943	.932	.934	.940	.951	.961	.965	.969	.968	.968	.968	
West Indies.....																										
Basseterre, St. Kitts	29.877	.869	.866	.865	.873	.889	.908	.919	.926	.936	.920	.907	.893	.875	.869	.865	.874	.880	.889	.898	.901	.901	.894	.888	.888	
Bridgetown, Bar....	29.919	.911	.913	.917	.928	.940	.957	.967	.974	.973	.962	.945	.934	.909	.905	.906	.911	.916	.926	.937	.944	.944	.940	.930	.920	.919
Santo Domingo, S. D.	29.921	.908	.899	.896	.901	.915	.928	.941	.946	.948	.940	.925	.906	.894	.878	.872	.873	.886	.896	.911	.924	.932	.931	.925	.924	.924
Willemstad, Curaçao	29.847	.836	.831	.834	.844	.857	.874	.886	.890	.887	.869	.846	.818	.798	.779	.776	.784	.800	.824	.845	.875	.872	.860	.860	.860	.860

TABLE VI.—Average wind movement for each hour of seventy-fifth meridian time, September, 1898.

Stations.	1 a. m.												Midnight.												Mean.
	1 a. m.	2 a. m.	3 a. m.	4 a. m.	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.	9 p. m.	10 p. m.	11 p. m.		
Abilene, Tex.	8.3	8.7	8.4	7.8	7.8	6.9	7.0	7.1	7.7	9.6	10.6	10.1	10.6	10.6	10.5	10.6	11.0	10.4	10.2	8.5	7.2	6.9	7.5	8.1	8.8
Albany, N. Y.	4.5	4.1	3.9	4.1	3.6	4.0	4.5	5.9	6.9	7.7	8.3	9.1	10.0	9.5	10.0	9.7	9.0	7.4	5.2	4.2	4.8	5.2	4.8	4.7	6.3
Alpena, Mich.	6.3	5.8	5.9	5.9	5.5	5.7	6.4	7.6	9.2	10.0	11.0	12.4	12.8	13.2	13.3	12.3	11.7	10.3	8.9	6.4	6.1	6.2	5.8	6.0	8.5
Amarillo, Tex.	15.3	15.5	15.6	15.9	16.0	15.3	14.6	12.8	13.1	15.3	16.5	15.8	16.0	14.8	14.6	15.2	16.2	16.5	16.0	14.9	14.6	14.4	14.7	15.3	15.2
Atlanta, Ga.	6.5	6.7	6.5	6.5	7.5	7.3	7.9	7.8	8.1	8.5	8.9	9.2	8.3	8.5	8.3	8.2	7.9	7.0	6.4	5.9	7.0	6.9	6.6	6.6	7.5
Atlantic City, N. J.	8.9	8.6	8.5	8.5	8.1	7.9	8.5	9.1	10.0	10.7	10.7	11.0	11.4	11.3	10.3	9.2	8.6	8.7	9.2	9.0	9.0	8.5	8.5	9.5	
Augusta, Ga.	3.8	3.6	3.6	3.8	4.1	4.2	4.6	4.9	6.3	6.8	7.6	7.7	8.2	8.6	7.5	7.6	7.6	5.9	4.6	4.5	3.5	3.2	3.0	3.3	5.4
Baker City, Oreg.	4.3	5.7	6.6	6.8	7.9	7.8	8.0	8.4	8.4	7.6	5.5	3.3	3.6	4.9	5.5	6.0	5.9	6.0	5.6	4.3	3.4	4.1	3.8	5.8	
Baltimore, Md.	3.5	3.8	3.7	3.5	3.2	3.3	4.1	4.8	5.5	6.1	5.8	6.4	7.2	7.5	7.0	6.4	5.3	3.9	4.1	4.2	4.1	3.8	3.3	4.8	
Bismarck, N. Dak.	5.5	6.2	6.0	6.1	7.1	6.9	6.6	6.8	8.3	9.8	12.5	13.7	14.2	14.2	14.0	13.9	12.8	10.7	8.6	7.9	7.5	6.5	5.9	9.1	
Block Island, R. I.	12.2	12.2	12.4	12.7	12.4	12.3	12.7	13.9	14.0	14.8	15.1	14.9	15.5	15.8	15.9	15.3	14.2	12.3	12.0	11.7	12.4	12.5	13.2	12.9	13.5
Boston, Mass.	7.9	8.4	8.5	8.2	7.9	8.5	8.6	9.1	10.1	10.3	10.6	11.0	12.0	12.0	11.8	11.8	11.3	9.4	8.9	8.4	9.0	8.4	8.5	8.7	9.6
Buffalo, N. Y.	12.0	11.4	11.4	11.1	11.0	11.8	10.8	11.6	13.0	13.9	15.0	15.5	16.8	17.8	17.2	16.8	16.7	15.5	13.8	13.5	13.0	12.9	12.5	12.6	13.6
Cairo, Ill.	5.9	5.6	5.9	5.6	5.5	5.3	6.1	5.4	6.1	6.6	6.9	8.1	8.8	9.0	9.4	9.8	8.8	7.0	6.5	6.9	6.3	6.1	5.7	5.9	6.8
Cape Henry, Va.	12.8	12.7	12.2	12.3	11.8	12.3	12.7	13.7	13.2	13.1	13.8	13.1	13.8	13.9	14.1	14.2	13.7	12.5	12.6	12.0	12.2	12.9	12.4	12.5	12.9
Carson City, Nev.	6.6	5.8	4.8	3.9	4.1	3.5	3.9	4.0	3.6	3.7	3.7	3.7	5.2	6.8	7.7	8.6	9.8	10.4	11.1	11.5	11.2	8.4	8.2	8.0	6.6
Charleston, S. C.	9.2	9.8	9.9	10.1	9.9	10.2	10.8	11.9	12.2	13.2	13.6	13.0	13.6	13.8	14.2	14.6	14.3	12.4	12.0	10.1	10.3	9.5	9.3	9.2	11.5
Charlotte, N. C.	4.5	4.7	5.0	5.1	5.0	4.9	4.9	5.6	6.4	7.1	7.6	7.3	7.2	7.2	7.0	7.0	5.6	5.3	4.5	4.8	4.7	4.7	4.8	5.7	
Chattanooga, Tenn.	3.2	3.7	3.6	3.3	3.7	3.8	4.2	4.5	4.4	6.1	7.4	8.0	8.2	7.6	7.4	7.6	7.5	6.0	5.1	4.3	3.9	3.6	3.7	5.2	
Cheyenne, Wyo.	7.8	7.5	7.0	6.9	7.3	7.7	8.7	8.1	8.7	9.5	11.1	12.4	13.2	12.9	12.3	12.7	10.9	9.4	8.3	8.3	7.8	7.8	9.6		
Chicago, Ill.	17.7	16.6	15.6	16.0	16.7	16.3	16.0	15.1	16.1	15.6	15.4	15.5	15.2	15.2	16.2	16.5	16.1	15.9	15.5	15.4	15.5	15.9	16.4	15.9	
Cincinnati, Ohio.	4.6	4.8	4.8	4.8	5.0	5.3	6.0	6.1	7.0	7.7	8.2	8.6	8.8	8.8	9.0	9.0	8.6	8.6	6.9	6.6	5.5	4.9	4.8	5.2	6.6
Cleveland, Ohio.	13.8	14.1	14.7	14.6	14.2	13.6	13.5	13.1	11.6	11.4	12.5	13.2	13.2	13.6	14.5	14.2	14.1	13.0	11.7	12.5	13.4	13.2	13.8	13.4	
Columbus, Mo.	6.4	6.1	5.8	5.5	5.6	5.7	5.6	5.4	5.7	6.9	7.8	8.3	9.1	9.3	9.6	9.3	8.7	8.7	6.9	6.8	6.9	7.0	6.8	7.1	
Columbus, Ohio.	4.9	4.8	4.5	5.0	5.3	4.9	5.0	4.9	6.2	7.8	8.4	8.3	8.9	9.0	8.8	9.0	8.6	7.5	7.2	6.7	6.6	6.4	5.3	6.7	
Concordia, Kans.	6.5	6.3	5.8	5.1	4.9	5.2	4.9	5.1	6.0	8.0	8.6	9.5	9.4	9.8	9.6	9.7	9.7	8.6	7.7	5.8	5.5	5.9	6.2	7.1	
Corpus Christi, Tex.	11.8	10.7	9.3	8.8	7.8	7.9	7.7	8.0	7.9	8.6	9.6	10.0	12.0	13.2	13.7	15.1	15.5	15.0	15.2	13.9	12.9	12.7	12.8	12.1	11.8
Davenport, Iowa.	5.9	5.7	5.2	5.3	4.7	4.6	5.1	5.0	6.1	7.5	8.2	8.5	9.0	9.2	9.2	8.8	7.7	5.8	5.6	5.9	6.1	5.9	6.7		
Denver, Colo.	8.0	7.9	7.0	6.7	6.9	6.3	7.0	7.2	7.2	6.7	6.1	6.6	8.0	8.4	9.0	9.4	9.2	9.3	8.8	8.5	8.3	8.1	7.7		
Des Moines, Iowa.	5.0	5.2	5.5	5.2	4.7	4.7	4.2	4.2	4.7	5.7	7.5	8.0	9.4	10.0	10.2	10.1	9.2	7.2	6.4	5.2	5.0	5.3	5.0	6.6	
Detroit, Mich.	7.7	7.8	7.1	7.6	8.3	7.9	7.5	8.2	8.4	9.6	10.3	11.0	12.0	12.3	12.7	12.4	11.7	9.8	7.5	6.8	7.4	7.6	7.6	9.1	
Dodge, Kans.	9.3	8.7	8.8	8.3	8.2	7.8	7.8	8.3	8.3	10.6	12.0	12.1	12.6	13.5	13.9	13.6	13.1	12.4	12.1	10.0	9.1	9.2	9.0	10.8	
Dubuque, Iowa.	4.6	4.0	4.2	4.3	4.2	4.5	4.6	4.5	5.0	6.1	7.3	8.6	8.9	9.0	9.4	9.0	7.4	5.6	4.7	4.2	4.4	5.1	4.9	6.0	
Duluth, Minn.	10.1	10.1	9.5	8.7	8.5	8.5	9.0	9.0	9.3	9.8	10.8	12.2	12.5	12.1	11.7	11.6	10.8	9.6	9.2	9.9	9.5	9.3	9.0	10.0	
Eastport, Me.	7.2	6.9	7.1	7.0	6.5	6.6	6.8	7.4	8.4	9.0	9.6	10.2	10.5	11.0	11.7	10.9	9.3	8.2	8.0	8.0	7.3	7.4	7.1		
El Paso, Tex.	10.6	9.9	10.1	9.5	9.9	9.8	9.2	8.8	8.1	8.4	10.1	9.6	9.8	10.2	10.6	10.1	10.5	11.0	10.1	9.8	9.4	9.9	9.9		
Erie, Pa.	10.4	10.8	10.8	10.2	10.3	10.0	10.5	10.7	10.9	10.4	10.8	11.7	12.3	12.4	12.1	12.4	12.1	11.1	9.4	8.5	9.4	9.5	10.3	10.2	10.4
Eureka, Cal.	3.8	3.5	3.0	3.3	2.9	2.8	2.6	3.1	3.8	4.1	4.4	5.4	5.6	7.8	8.5	8.7	7.7	6.8	5.1	4.0	4.3	4.8	4.8	5.1	
Evansville, Ind.	5.2	5.0	4.9	5.8	5.3	5.6	5.9	6.1	6.8	7.3	7.7	8.6	9.9	10.4	10.5	10.8	10.1	9.1	8.2	8.2	8.1	8.5	8.1	9.1	
Fort Canby, Wash.	12.7	12.6	11.8	12.4	11.0	9.2	9.1	9.7	9.6	10.4	11.7	12.4	12.4	12.4	12.4	12.4	12.4	12.4	13.3	13.3	13.0	13.1	12.0		
Fort Smith, Ark.	3.9	4.1	4.1	4.2	4.3	3.7	3.7	4.1	4.6	4.5	4.8	4.9	5.2	5.1	5.2	5.5	5.1	4.8	4.5	4.4	4.4	3.9	3.9	4.5	
Fresno, Cal.	5.9	5.6	5.6	5.1	4.7	4.1	4.0	3.9	4.1	3.6	3.5	4.1	4.4	4.2	4.4	4.4	4.8	4.9	5.0	4.7	4.9	5.6	5.4	4.6	
Galveston, Tex.	8.7	8.2	7.8	7.2	6.8	6.6	7.2	7.0	8.0	8.5	8.2	8.1	8.7	8.9	8.8	8.4	8.4	7.8	7.4	7.4	7.8	7.8	7.8	8.0	
Grand Haven, Mich.	7.2	7.0	7.5	7.5	7.8	7.8	7.3	7.7	8.6	9.3	10.1	10.5	10.8	10.7	10.2	9.8	9.2	7.6	6.2	6.7	7.1	7.2	7.1		
Green Bay, Wis.	5.3	5.2	5.4	5.6	5.8	5.6	5.4	6.2	6.2	7.9	9.0	9.4	9.3	9.8	9.9	9.8	9.3	8.2	6.6	6.1	5.8	5.4	7.1		
Hannibal, Mo.	7.4	7.8	7.7	7.6	7.6	7.6	7.9	7.0	8.3	9.3	10.2	10.6	10.1	10.5	11.7	11.1	11.4	10.3	8.6	7.5	7.8	7.6	8.8		
Harrisburg, Pa.	3.9	3.6	3.7	4.0	4.5	4.3	4.0	4.8	5.5	6.3	7.1	8.3	8.9	8.7	8.8	7.6	7.0	5.6	4.4	4.3	4.0	4.2	4.0	5.6	
Hatteras, N. C.	12.8	13.2	12.7	12.5	12.8	12.4	12.3	13.4	13.6	14.0	14.0	14.7	14.9	14.6	14.3	14.4	13.1	13.5	13.3	13.1	12.8	12.9	12.8		

TABLE VI.—*Average wind movement, etc.—Continued.*

Stations.																														
	1 a. m.	2 a. m.	3 a. m.	4 a. m.	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.	9 p. m.	10 p. m.	11 p. m.	Midnight.	Mean.						
Omaha, Nebr.....	7.3	7.2	7.1	6.6	5.9	5.6	4.9	5.4	6.1	6.9	7.1	8.2	9.2	10.1	10.4	10.7	10.0	9.7	7.8	6.4	5.9	6.6	6.6	7.0	7.4					
Oswego, N. Y.....	9.7	9.9	9.1	8.9	9.7	9.7	10.1	10.6	10.8	10.6	10.1	10.7	10.3	9.8	9.8	8.9	7.9	8.1	8.5	8.7	8.8	10.3	10.7	9.7						
Palestine, Tex.....	5.3	5.0	4.6	4.5	4.3	4.2	4.3	4.2	4.8	6.2	7.3	7.2	7.5	7.2	7.5	7.9	7.6	7.2	7.0	5.1	4.6	4.9	5.5	5.4	5.8					
Parkersburg, W. Va.....	3.6	3.5	3.4	3.2	3.3	3.4	3.2	3.2	3.9	4.9	4.9	5.9	5.9	6.2	6.8	6.7	6.4	6.4	5.0	3.8	3.6	3.0	4.0	4.8	4.3	4.6				
Pensacola, Fla.....	8.2	8.3	9.0	9.3	9.3	9.4	9.5	10.0	10.5	11.1	11.1	11.0	10.3	11.0	11.0	10.3	10.2	9.9	9.8	8.8	8.1	8.0	7.9	8.1	9.6					
Philadelphia, Pa.....	7.3	7.4	7.1	6.9	6.8	7.1	7.7	8.2	8.8	9.2	9.7	9.5	10.2	10.1	10.2	10.8	10.4	10.3	8.9	8.0	8.1	7.6	7.7	8.0	8.6					
Phoenix, Ariz.....	3.6	3.9	4.0	4.4	4.6	4.5	4.5	4.2	4.6	4.7	5.3	5.5	5.8	5.0	4.9	5.2	5.2	5.1	4.1	3.2	3.2	3.2	4.5							
Pierre, S. Dak.....	6.5	5.0	4.8	4.6	5.5	6.1	5.6	6.3	6.0	6.7	8.5	10.7	12.0	12.2	12.0	12.5	12.4	11.7	11.3	8.9	7.4	7.9	7.7	8.3						
Pittsburg, Pa.....	3.6	3.4	3.6	3.3	3.3	3.6	3.5	4.0	4.9	5.9	6.7	7.0	7.4	8.0	7.8	8.1	7.9	6.8	5.8	5.1	4.5	4.3	4.1	4.1	5.3					
Point Reyes Lt., Cal.....	22.1	21.0	19.9	19.7	20.3	19.6	19.3	19.1	18.3	17.1	15.5	15.7	16.0	16.9	17.8	19.0	19.6	22.5	22.3	22.8	22.3	19.6								
Port Angeles, Wash.....	5.4	5.1	4.4	4.2	4.4	4.2	4.5	5.0	4.2	4.1	3.5	3.4	4.2	4.7	5.5	6.0	6.1	6.1	6.3	6.0	5.2	5.3	4.6	5.2	4.9					
Port Huron, Mich.....	8.8	8.3	8.6	8.6	8.4	8.0	7.8	8.2	9.9	10.8	11.7	12.2	13.0	13.6	13.1	12.4	10.7	9.4	8.4	8.5	8.7	9.3	9.8							
Portland, Me.....	4.0	4.4	4.4	4.1	4.3	4.8	4.2	5.2	6.1	7.0	8.2	8.3	8.7	8.9	9.5	9.1	7.7	6.7	5.8	5.6	4.7	4.8	4.8	4.2	6.1					
Portland, Oreg.....	9.0	8.2	7.1	7.3	6.6	6.8	6.5	6.6	7.1	6.5	6.9	8.4	9.1	9.0	10.2	10.4	11.1	10.2	9.6	9.8	9.3	9.0	9.3	8.5						
Pueblo, Colo.....	6.6	6.0	5.4	5.0	4.9	4.9	5.8	4.9	4.8	4.4	4.2	5.6	6.6	8.0	8.9	9.5	9.8	10.3	9.0	7.6	6.7	5.6	6.7							
Raleigh, N. C.....	4.8	4.9	4.7	4.8	4.7	5.1	5.0	5.8	7.0	8.8	8.7	8.5	8.3	8.0	7.3	6.8	5.5	4.1	4.6	4.5	4.9	4.9	5.3	6.0						
Rapid City, S. Dak.....	6.4	6.2	6.0	5.4	6.0	5.9	5.4	5.7	5.6	6.7	8.3	9.1	10.4	11.1	10.9	10.5	10.7	10.2	10.8	8.6	7.4	7.0	6.3	6.1	7.8					
Red Bluff, Cal.....	4.8	5.6	5.9	6.3	6.3	6.8	5.8	5.3	4.6	3.7	3.6	4.4	5.1	5.3	5.1	5.2	5.8	5.5	5.9	5.5	5.4	4.8	5.4							
Richmond, Va.....	3.9	4.5	4.3	4.3	4.5	5.2	5.6	6.3	7.0	7.4	7.5	7.4	7.6	7.2	7.4	7.4	7.0	6.2	5.0	4.5	4.3	4.2	4.4	4.3	5.7					
Rochester, N. Y.....	6.2	5.7	6.1	5.9	6.2	5.8	5.5	6.5	7.3	8.2	8.4	8.5	9.1	9.8	9.1	8.6	8.6	7.7	5.9	5.5	6.1	6.2	6.1	7.1						
Roseburg, Oreg.....	2.5	2.4	2.1	1.9	2.3	2.4	2.6	2.1	2.3	2.0	2.0	2.6	3.2	3.2	3.8	4.2	4.6	5.5	6.0	6.9	7.2	6.9	5.0	3.6	2.4	3.6				
Sacramento, Cal.....	9.0	8.6	9.1	9.3	9.3	9.2	8.8	7.7	7.3	6.5	6.0	6.1	6.4	6.8	6.9	7.6	7.9	8.1	8.9	8.8	8.9	8.8	8.7	8.0						
St. Louis, Mo.....	8.4	8.7	8.7	7.7	7.9	8.0	7.7	8.1	8.9	9.5	10.1	9.8	9.8	10.7	11.1	10.7	10.7	10.1	10.1	8.9	8.5	8.8	8.7	8.5	9.2					
St. Paul, Minn.....	5.4	4.9	4.7	4.3	4.3	4.2	4.2	4.9	4.3	4.7	5.7	7.0	8.7	9.5	10.0	10.2	9.8	10.0	9.3	7.4	7.2	7.3	7.4	6.5	5.9	6.8				
Salt Lake City, Utah.....	4.7	4.8	4.8	5.0	4.9	4.9	4.7	4.7	5.5	5.0	5.2	5.9	6.9	7.5	9.0	9.1	9.8	9.9	6.5	5.6	5.0	5.1	5.0	6.2						
San Antonio, Tex.....	7.1	6.3	5.8	6.3	6.1	6.2	6.3	6.4	6.8	7.7	7.7	8.5	8.7	9.6	9.6	9.6	9.1	9.0	9.1	7.9	8.5	9.1	9.1	7.8						
San Diego, Cal.....	2.2	2.3	2.5	2.3	2.4	2.5	2.6	2.7	2.6	2.5	2.8	4.1	6.4	9.2	10.5	11.0	11.5	11.1	10.0	8.7	5.7	3.9	3.2	5.4						
Sandusky, Ohio.....	6.8	6.7	6.6	6.5	7.1	7.5	7.0	6.6	7.1	7.4	8.1	8.0	8.4	8.6	8.3	8.4	8.0	7.2	6.8	6.2	6.0	6.2	6.3	7.2						
San Francisco, Cal.....	11.4	11.0	9.8	9.1	8.2	7.8	6.7	6.5	7.0	6.7	6.8	7.2	8.8	10.5	13.0	15.5	18.1	19.8	20.0	20.1	19.6	16.6	14.2	11.9	11.9					
San Luis Obispo, Cal.....	2.3	2.5	2.6	3.3	3.1	3.5	3.6	3.4	3.2	3.3	4.0	4.7	5.0	5.7	7.1	7.6	7.7	7.4	7.0	6.9	5.3	4.3	4.1	3.3	4.6					
Santa Fe, N. Mex.....	3.8	3.7	3.8	3.3	3.2	2.8	3.1	2.8	3.0	2.9	4.4	5.5	7.4	7.6	8.1	9.2	9.3	9.5	8.7	7.3	5.1	5.3	5.4	4.9	5.4					
Sault Ste. Marie, Mich.....	4.8	5.2	5.7	5.3	6.2	6.8	7.5	8.2	9.6	9.8	10.5	11.3	12.2	12.1	12.1	12.0	11.5	9.8	8.5	6.9	5.7	5.2	5.0	4.8	8.2					
Savannah, Ga.....	5.8	5.8	5.9	6.4	6.5	6.2	5.6	6.9	8.1	9.2	9.6	9.7	10.1	10.6	10.8	10.9	10.4	9.0	7.6	6.9	6.5	6.6	6.3	6.6	7.8					
Seattle, Wash.....	3.8	3.9	3.8	4.1	3.3	3.6	3.6	3.8	4.0	4.3	4.3	4.9	5.6	6.0	6.4	6.5	6.9	7.4	7.4	6.9	6.7	5.9	4.6	4.0	5.1					
Shreveport, La.....	5.5	5.5	5.1	4.9	4.8	4.5	4.9	4.8	4.9	5.4	5.9	6.4	6.8	7.1	7.1	7.5	7.2	6.9	6.2	5.0	4.8	5.2	5.3	5.1	5.7					
Sioux City, Iowa.....	9.2	9.6	9.2	8.2	8.6	8.6	8.1	8.2	8.9	9.7	10.4	12.2	14.2	14.2	14.1	14.4	14.7	14.7	14.2	12.6	11.5	10.5	10.4	10.5	9.6	10.9				
Spokane, Wash.....	5.2	4.8	4.8	4.7	5.1	5.3	5.0	4.8	4.3	4.4	5.5	6.4	7.1	7.7	7.6	7.9	8.0	8.2	7.8	6.7	5.7	5.3	6.1	6.1	6.1					
Springfield, Ill.....	8.8	8.2	7.8	7.4	7.0	7.4	6.8	7.0	7.4	8.0	8.7	8.8	9.3	9.9	10.1	9.6	9.1	8.3	7.4	6.5	6.7	7.6	8.7	8.1						
Springfield, Mo.....	8.8	8.6	8.8	7.9	8.4	8.7	9.1	8.7	8.6	8.6	9.9	10.1	11.0	11.3	10.5	10.4	10.7	10.4	10.0	8.2	7.8	7.7	8.4	8.6	9.2					
Tacoma, Wash.....	4.6	3.6	3.7	3.6	3.2	3.3	3.2	3.9	3.5	3.2	3.4	4.4	5.5	7.4	8.2	8.4	8.1	7.6	6.8	6.7	6.4	6.4	6.1	6.1	5.4	5.3	5.3			
Tampa, Fla.....	4.6	4.0	4.0	4.1	4.2	4.3	4.7	5.9	7.2	7.4	7.5	6.6	7.3	7.7	6.7	6.9	7.8	6.6	6.4	5.8	5.7	5.3	5.1	5.0	4.6	5.7				
Toledo, Ohio.....	7.4	7.4	7.1	7.2	7.3	7.4	7.9	8.1	8.9	10.0	10.4	11.3	11.5	12.1	11.7	11.4	11.4	10.5	8.3	7.4	6.8	6.7	7.3	8.8						
Vicksburg, Miss.....	6.7	6.7	6.4	6.1	6.0	6.1	6.0	6.1	5.6	6.0	6.8	7.3	8.0	8.0	8.0	8.1	7.8	7.3	6.0	5.4	5.7	6.3	7.3	6.7						
Vineyard Haven, Mass.....	7.1	6.8	7.0	7.2	7.3	6.8	6.9	7.6	8.4	9.0	9.3	9.5	9.9	9.8	9.8	9.2	8.7	7.5	7.1	7.0	6.7	6.8	7.3	7.2	7.9					
Walla Walla, Wash.....	5.4	4.7	4.5	4.8	4.9	4.8	4.5	4.7	4.4	4.4	4.1	4.7	5.7	6.1	6.0	5.8	6.1	6.0	6.9	6.4	5.4	5.2	5.6	5.2	5.2					
Washington, D. C.....	3.7	3.6	3.5	3.6	3.4	3.4	3.8	4.4																						

TABLE VII.—*Resultant winds from observations at 8 a. m. and 8 p. m., daily, during the month of September, 1898.*

Stations.	Component direction from—				Resultant.		Stations.	Component direction from—				Resultant.	
	N.	S.	E.	W.	Direction from—	Duration.		N.	S.	E.	W.	Direction from—	Duration.
<i>New England.</i>													
Eastport, Me.	19	17	8	27	n. 84 w.	19	Duluth, Minn.	22	13	11	28	n. 62 w.	9
Portland, Me.	14	19	6	30	s. 78 w.	24	<i>North Dakota.</i>						
Northfield, Vt.	11	42	3	12	s. 16 w.	32	Moorhead, Minn.	18	20	17	25	s. 76 w.	8
Boston, Mass.	13	17	7	32	s. 81 w.	25	Bismarck, N. Dak.	24	11	18	22	n. 17 w.	14
Nantucket, Mass.	17	18	14	29	s. 86 w.	15	Williston, N. Dak.	20	20	10	24	w.	14
Woods Hole, Mass.*	7	17	4	10	s. 31 w.	12	<i>Upper Mississippi Valley.</i>						
Block Island, R. I.	12	20	12	34	s. 70 w.	12	St. Paul, Minn.	14	24	17	23	s. 81 w.	12
New Haven, Conn.	23	19	9	23	n. 74 w.	15	La Crosse, Wis.†	7	21	5	7	s. 8 w.	14
<i>Middle Atlantic States.</i>							Davenport, Iowa.	17	18	19	17	s. 63 e.	2
Albany, N. Y.	13	36	8	10	s. 5 w.	23	Des Moines, Iowa.	21	18	18	16	n. 34 e.	4
Binghamton, N. Y.†	10	6	13	7	n. 56 e.	7	Dubuque, Iowa.	16	24	13	21	s. 45 w.	11
New York, N. Y.	19	20	10	28	s. 86 w.	13	Keokuk, Iowa.	12	22	22	14	s. 39 e.	13
Harrisburg, Pa.†	7	5	8	15	n. 74 w.	7	Cairo, Ill.	10	31	22	6	s. 39 e.	22
Philadelphia, Pa.	19	18	12	16	s. 76 w.	4	Springfield, Ill.	9	27	16	19	s. 9 w.	18
Atlantic City, N. J.	17	20	16	23	s. 67 w.	8	Hannibal, Mo.†	4	14	6	11	s. 27 w.	11
Cape May, N. J.	22	26	13	15	s. 27 w.	4	St. Louis, Mo.	10	29	17	12	s. 15 e.	20
Baltimore, Md.	22	20	12	23	n. 43 w.	16	<i>Missouri Valley.</i>						
Washington, D. C.	18	21	14	18	s. 53 w.	5	Columbia, Mo.*	4	13	10	9	s. 7 e.	8
Lynchburg, Va.	20	18	25	20	s. 36 e.	9	Kansas City, Mo.	15	27	22	13	s. 37 e.	15
Norfolk, Va.	23	16	25	15	s. 35 e.	12	Springfield, Mo.	10	33	23	6	s. 36 e.	29
Richmond, Va.	25	19	15	12	n. 27 e.	7	Lincoln, Nebr.	18	28	20	8	s. 50 e.	16
<i>South Atlantic States.</i>							Omaha, Nebr.	19	25	17	12	s. 40 e.	8
Charlotte, N. C.	24	14	30	7	n. 67 e.	25	Pierre, S. Dak.	21	20	21	12	n. 76 e.	4
Hatteras, N. C.	32	18	10	5	n. 20 e.	15	Huron, S. Dak.	17	19	19	14	s. 68 e.	5
Raleigh, N. C.	29	14	17	15	n. 8 e.	15	<i>Yankton, S. Dak.†</i>	9	10	8	9	s. 45 w.	1
Wilmington, N. C.	17	16	19	13	s. 82 e.	7	<i>Northern Slope.</i>						
Charleston, S. C.	20	18	27	9	n. 84 e.	18	Havre, Mont.	18	15	9	86	n. 84 w.	27
Augusta, Ga.	28	14	26	14	n. 41 e.	18	Miles City, Mont.	18	18	9	21	w.	12
Savannah, Ga.	22	17	28	6	n. 77 e.	23	Helema, Mont.	10	24	12	32	s. 55 w.	24
Jacksonville, Fla.	29	15	32	8	n. 64 e.	32	Rapid City, S. Dak.	16	14	10	35	n. 85 w.	25
<i>Florida Peninsula.</i>							Cheyenne, Wyo.	25	14	11	27	n. 56 w.	19
Jupiter, Fla.	22	14	33	7	n. 73 e.	27	Lander, Wyo.	14	21	16	27	s. 58 w.	13
Key West, Fla.	16	9	38	7	n. 77 e.	32	North Platte, Nebr.	21	22	16	19	s. 72 w.	3
Tampa, Fla.	31	6	31	5	n. 46 e.	36	<i>Middle Slope.</i>						
<i>Eastern Gulf States.</i>							Denver, Colo.	17	29	19	6	s. 47 e.	18
Atlanta, Ga.	23	10	30	14	n. 51 e.	21	Pueblo, Colo.	19	12	25	16	n. 52 e.	11
Pensacola, Fla.	15	25	23	9	s. 67 e.	26	Concordia, Kans.	16	26	16	12	s. 22 e.	11
Mobile, Ala.	27	13	23	4	n. 54 e.	24	Dodge, Kans.	17	27	15	13	s. 50 e.	16
Montgomery, Ala.	18	14	36	10	n. 81 e.	26	Wichita, Kans.	16	37	13	7	s. 29 e.	12
Vicksburg, Miss.	14	15	34	7	s. 88 e.	27	Oklahoma, Okla.	15	33	12	5	s. 21 e.	19
New Orleans, La.	16	16	39	5	e.	34	<i>Southern Slope.</i>						
<i>Western Gulf States.</i>							Abilene, Tex.	13	34	18	8	s. 25 e.	23
Shreveport, La.	17	22	35	6	s. 80 e.	29	Amarillo, Tex.	13	33	9	14	s. 9 w.	20
Fort Smith, Ark.	11	12	37	5	s. 88 e.	32	<i>Southern Plateau.</i>						
Little Rock, Ark.	11	25	21	11	s. 36 e.	17	El Paso, Tex.	18	11	30	18	n. 60 e.	14
Corpus Christi, Tex.	23	17	30	4	n. 79 e.	26	Santa Fe, N. Mex.	19	22	22	15	s. 67 e.	8
Fort Worth, Tex.†	8	17	1	8	s. 38 w.	25	Phoenix, Ariz.	18	5	24	24	n.	13
Galveston, Tex.	23	20	30	5	n. 83 e.	25	Yuma, Ariz.	12	14	22	20	s. 45 e.	3
Palestine, Tex.	23	19	27	3	n. 81 e.	24	Independence, Cal.	17	26	14	23	s. 45 w.	13
San Antonio, Tex.	23	17	33	2	n. 79 e.	32	<i>Middle Plateau.</i>						
<i>Ohio Valley and Tennessee.</i>							Carson City, Nev.	12	24	8	29	s. 60 w.	24
Chattanooga, Tenn.	23	19	20	14	n. 63 e.	7	Winnemucca, Nev.	24	12	13	25	n. 47 w.	18
Knoxville, Tenn.	25	19	16	13	n. 27 e.	7	Salt Lake City, Utah.	21	17	19	22	n. 37 w.	5
Memphis, Tenn.	15	24	22	17	s. 29 e.	10	<i>Northern Plateau.</i>						
Nashville, Tenn.	17	20	19	19	s. 34 w.	4	Baker City, Oreg.	16	32	13	8	s. 17 e.	17
Lexington, Ky.	10	28	20	13	s. 21 e.	19	Idaho Falls, Idaho.	20	34	1	9	s. 30 w.	16
Louisville, Ky.	17	25	20	15	s. 32 e.	19	Spokane, Wash.	21	23	15	12	s. 56 w.	4
Evansville, Ind.†	6	15	8	6	s. 13 e.	9	Walla Walla, Wash.	14	37	6	13	s. 17 w.	24
Indianapolis, Ind.	12	21	13	17	s. 12 w.	19	<i>North Pacific Coast Region.</i>						
Cincinnati, Ohio.	11	24	24	18	s. 25 e.	14	Fort Canby, Wash.	24	19	17	19	n. 39 e.	6
Columbus, Ohio.	13	21	14	17	s. 21 w.	8	Neah, Wash.	1	8	20	36	s. 66 w.	18
Pittsburg, Pa.	19	18	13	28	s. 86 w.	15	Port Angeles, Wash.†	10	1	12	13	n. 6 w.	9
Parkersburg, W. Va.	16	24	20	14	s. 37 e.	10	Seattle, Wash.	22	20	18	15	n. 45 w.	8
<i>Lower Lake Region.</i>							Tacoma, Wash.	29	18	8	21	n. 59 w.	21
Buffalo, N. Y.	13	27	4	27	s. 59 w.	27	Portland, Oreg.	27	18	11	23	n. 53 w.	15
Oswego, N. Y.	11	34	13	19	s. 15 w.	27	Roseburg, Oreg.	32	10	16	15	n. 8 e.	22
Rochester, N. Y.	5	34	8	31	s. 38 w.	37	<i>Middle Pacific Coast Region.</i>						
Erie, Pa.	12	30	5	25	s. 48 w.	27	Eureka, Cal.	21	21	9	24	w.	15
Cleveland, Ohio.	10	34	19	13	s. 14 e.	25	Red Bluff, Cal.	21	24	10	10	s.	8
Sandusky, Ohio.	10	26	12	23	s. 34 w.	19	Sacramento, Cal.	13	33	13	18	s. 14 w.	21
Toledo, Ohio.	12	26	9	27	s. 52 w.	23	San Luis Obispo, Cal.	22	10	3	29	s. 68 w.	48
Detroit, Mich.	13	27	14	27	s. 27 w.	16	<i>South Pacific Coast Region.</i>						
<i>Upper Lake Region.</i>							Fresno, Cal.	27	5	5	40	n. 58 w.	41
Alpena, Mich.	18	23	9	27	s. 61 w.	21	Los Angeles, Cal.	4	15	2	48	s. 77 w.	47
Grand Haven, Mich.	21	20	16	18	s. 63 w.	2	San Diego, Cal.	26	12	6	27	n. 56 w.	25
Marquette, Mich.	11	24	9	27	s. 54 w.	22	San Luis Obispo, Cal.	22	10	3	29	n. 65 w.	29
Port Huron, Mich.	12	32	10	20	s. 27 w.	22	<i>West Indies.</i>						
Sault Ste. Marie, Mich.	16	13	20	24	s. 53 w.	5	Basseterre, St. Kitts Island	9	19	86	7	s. 71 e.	81
Chicago, Ill.	10	21	21	21	n.	11	Bridgetown, Barbados	23	8	42	0	n. 70 e.	45
Milwaukee, Wis.	18	21	17	23	n. 34 w.	24	Colon, U. S. C.	9	41	14	10	s. 17 e.	32
Green Bay, Wis.	6	26	12	25	s. 33 w.	24							

* From observations at 8 p. m. only.

† From observations at 8 a. m. only.

TABLE VIII.—*Thunderstorms and auroras, September, 1898.*

TABLE IX.—*Average hourly sunshine (in percentages), September, 1898.*

Stations.	Instrument.	Percentages for each hour of local mean time ending with the respective hour.														Hours of sunshine.					
		A. M.							P. M.							Total.		Personal estimate.			
		5	6	7	8	9	10	11	Noon	1	2	3	4	5	6	7	8	Actual.	Possible.	Percent of possible.	
Albany, N. Y.	T.	26	34	42	58	70	78	82		82	83	75	65	60	50	52		239.1	375.0	64	58
Atlanta, Ga.	T.	27	37	37	37	44	47	48		49	40	35	30	27	29	9		140.0	371.8	38	35
Atlantic City, N. J.	P.	74	70	72	71	74	76	72		76	76	78	74	72	69	82		273.8	373.4	73	65
Baltimore, Md.	T.	63	58	70	80	88	91	95		97	92	85	83	74	52	53		297.8	373.4	80	67
Binghamton, N. Y.	T.	9	11	32	57	70	75	78		72	72	69	62	55	36	17		208.3	374.5	56	52
Bismarck, N. Dak.	P.	51	49	57	59	71	72	72		67	75	72	66	66	67	67		246.9	376.9	65	62
Boston, Mass.	T.	50	59	65	70	75	84	89		91	98	78	67	53	49	32		266.2	374.5	71	63
Buffalo, N. Y.	T.	48	51	61	74	80	88	92		96	94	85	85	75	61	56		290.0	375.0	58	53
Charleston, S. C.	T.	28	30	37	53	61	51	70		64	62	64	50	25	11		190.9	371.4	51	49	
Chattanooga, Tenn.	T.	27	28	34	54	54	56	65		64	59	51	49	43	32	19		179.8	372.0	48	48
Cheyenne, Wyo.	P.	55	63	83	87	84	90	89		84	82	79	74	67	53	71		289.0	374.0	77	67
Chicago, Ill.	T.	37	29	45	56	68	69	78		76	74	67	62	46	37	47		218.3	374.5	58	58
Cincinnati, Ohio	T.	61	57	59	64	76	80	88		91	93	89	84	78	72	71		247.9	373.4	77	68
Cleveland, Ohio	T.	47	47	50	49	63	69	68		77	79	81	64	53	46	49		231.2	374.5	62	52
Columbia, Mo.	T.	48	47	55	67	76	79	83		82	81	72	73	70	64	65		262.2	373.4	70	51
Columbus, Ohio	T.	54	56	60	71	77	79	81		81	84	82	72	68	67	82		271.6	373.6	73	64
Denver, Colo.	P.	77	75	74	80	83	85	85		89	88	83	80	75	54	55		294.8	373.6	79	66
Des Moines, Iowa	T.	48	55	59	74	80	76	77		77	76	70	60	58	63	58		254.8	374.5	68	59
Detroit, Mich.	T.	49	47	57	75	81	85	86		86	92	81	74	61	36	51		262.7	374.5	70	59
Dodge, Kans.	P.	67	72	74	77	79	83	85		83	83	82	81	73	75			296.0	373.0	79	64
Dubuque, Iowa	T.	35	36	58	77	88	85	86		87	91	89	85	67	51	37		272.0	374.5	73	64
Eastport, Me.	P.	24	29	43	57	63	59	63		69	68	62	50	46	35	25		197.1	375.8	52	34
Erie, Pa.	T.	50	51	58	65	73	78	83		77	79	81	79	68	55	47		261.3	374.5	70	55
Eureka, Cal.	P.	11	13	19	24	34	43	37		53	47	45	51	49	42	50		140.2	374.0	37	36
Fresno, Cal.	T.	90	80	80	86	89	89	90		93	89	89	88	87	88	100		326.6	372.6	88	86
Galveston, Tex.	P.	13	33	54	64	73	71	76		68	71	72	71	58	43	18		227.1	370.4	61	48
Harrisburg, Pa.	T.	65	52	67	76	81	83	80		86	84	75	70	59	38	50		263.6	373.6	71	58
Helena, Mont.	T.	49	57	72	80	79	77	69		65	75	72	70	65	32	10		249.7	376.9	66	57
Huron, S. Dak.	T.	64	66	68	66	77	79	83		80	78	70	66	61	48	244.2	375.4	70	62		
Idaho Falls, Idaho *	T.																				
Indianapolis, Ind.	T.	52	50	52	60	62	67	72		78	77	69	65	60	56	59		237.5	373.6	64	49
Jacksonville, Fla.	T.	10	17	53	71	76	82	75		71	68	61	45	17	2			209.6	370.8	57	43
Kansas City, Mo.	P.	61	60	70	71	76	74	69		64	72	77	81	70	61	58		261.5	373.4	70	64
Key West, Fla.	T.	41	44	57	81	89	90	88		89	87	86	79	64	46	31		273.4	369.0	74	46
Knoxville, Tenn.	T.	22	24	44	60	69	67	77		84	70	67	60	53	40	25		217.2	372.2	58	53
Little Rock, Ark.	T.	63	60	59	64	67	73	75		75	75	69	66	62	60	59		249.8	372.0	67	51
Los Angeles, Cal.	P.	75	66	68	72	78	82	82		85	90	91	95	94	100			302.9	371.8	81	76
Louisville, Ky.	T.	62	61	63	74	81	80	84		77	77	79	72	63	53	53		266.8	373.0	73	53
Minneapolis, Minn.	T.	50	55	63	76	77	72	73		72	69	64	62	53	41	38		239.9	375.8	64	54
Nashville, Tenn.	T.	70	71	81	87	92	97	93		90	88	85	81	72	52	56		304.6	372.2	82	65
New Orleans, La.	T.	54	50	47	52	55	56	46		41	46	37	37	28	21	20		160.4	370.8	43	46
New York, N. Y.	T.	14	37	59	64	73	76	81		80	78	74	65	58	45	45		240.8	374.0	64	61
Northfield, Vt.	P.	41	34	51	57	64	71	64		61	61	57	56	46	30	24		201.1	375.4	54	41
Oklahoma, Okla.	T.	71	75	80	83	85	90	88		80	87	86	84	77	69	71		306.7	372.0	82	78
Omaha, Nebr.	P.	66	70	70	75	72	73	76		74	71	70	64	61	55	265.5	374.0	71	70		
Parkersburg, W. Va.	T.	52	57	58	65	74	73	76		80	80	71	59	54	43	44		244.8	373.4	66	64
Philadelphia, Pa.	T.	64	59	65	69	75	78	83		84	83	75	66	59	57	68		264.8	373.6	71	66
Phoenix, Ariz.	P.	88	92	98	99	100	100	99		100	100	100	100	100	97	91		365.6	371.4	93	96
Pittsburg, Pa.	T.	27	29	37	49	58	69	77		85	83	77	73	66	59	62		234.1	374.0	63	55
Portland, Me.	T.	12	27	56	68	78	80	87		88	82	77	73	65	53	41		241.2	375.4	64	58
Portland, Oreg.	T.	40	34	40	45	52	70	80		73	80	69	61	50	55	71		220.7	376.1	59	56
Raleigh, N. C.	T.	23	31	49	66	78	84	81		83	81	71	69	58	43	31		240.8	372.3	65	56
Rochester, N. Y.	T.	47	47	49	58	64	71	72		74	79	71	61	49	62	75		235.5	375.0	63	58
St. Louis, Mo.	T.	57	55	64	70	76	83	88		90	88	83	77	74	55	56		278.3	373.4	75	53
St. Paul, Minn.	P.	62	58	66	74	76	73	71		64	64	63	58	44	39	34		232.9	375.8	62	57
Salt Lake City, Utah	P.	82	86	91	93	93	95	97		95	94	96	90	90	85	95		348.6	374.0	92	75
San Diego, Cal.	P.	54	49	61	71	78	86	93		96	95	95	94	91	93	93		306.5	371.4	83	81
San Francisco, Cal.	T.	29	27	33	55	75	90	96		97	96	98	91	74	48	58		268.6	373.0	72	55
Santa Fe, N. Mex.	P.	86	89	88	92	93	91	89		85	89	92	91	90	79	79		334.1	372.2	90	79
Savannah, Ga. *	T.																				
Seattle, Wash.	T.	25	20	20	23	33	51	59		62	67	50	41	34	34	51		154.3	377.5	41	49
Spokane, Wash.	T.	73	64	69	73	78	77	79		74	68	76	70	61	58	73		268.0	377.5	71	62
Tacoma, Wash.	T.	20	17	29	42	64	70	75		79	78	68	59	51	46	67		210.0	376.9	56	50
Tampa, Fla.	T.	73	75	77	81	83	88	80		76	77	66	52	36	31	14		251.2	369.6	68	63
Topeka, Kans.	T.	59	67	72	82	80	77	73		81	78	76	75	70	63	71		276.8	373.4	74	66
Vicksburg, Miss.	T.	39	40	35	33	44	50	49		51	56	51	53	40	35	36</					

TABLE X.—Accumulated amounts of precipitation for each 5 minutes, for storms in which the rate of fall equaled or exceeded 0.25 in any 5 minutes, or 0.75 in 1 hour during September, 1898, at all stations furnished with self-registering gauges.

Stations.	Date.	Total duration.		Total amt. of precipi- tation.	Excessive rate.		Amount be- fore exces- sive began.	Depths of precipitation (in inches) during periods of time as indicated.													
		From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
Albany, N. Y.....	1	2	3	4	12.10 p.m.	12.55 p.m.	0.47	12.20 p.m.	12.33 p.m.	T.	0.32	0.39	0.45	0.46	0.47	.....	.....	.....	.....	0.67	.....
Atlanta, Ga.....	1-2	8.26	9.26	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.44	.....
Atlantic City, N. J.....	22-23	9.30 p.m.	6.00 a.m.	1.14	4.40 a.m.	5.20 a.m.	0.35	0.18	0.27	0.33	0.40	0.47	0.52	0.60	0.65	0.69	0.73	0.77	0.81	0.85	0.89
Baltimore, Md.....	22-23	1.10	1.10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.44	.....
Binghamton, N. Y.....	4	8.45 p.m.	4.51 p.m.	0.90	4.03 p.m.	4.25 p.m.	0.02	0.24	0.54	0.74	0.81	0.86	0.90	0.94	0.97	0.99	0.99	0.99	0.99	0.99	0.99
Do.....	6	6.22 p.m.	7.05 p.m.	1.01	6.25 p.m.	6.55 p.m.	T.	0.16	0.30	0.49	0.68	0.84	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
Bismarck, N. Dak.....	2	0.32	0.32	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.31	.....
Boston, Mass.....	7	5.00 p.m.	7.30 p.m.	0.55	6.50 p.m.	7.00 p.m.	0.03	0.20	0.36	0.46	0.52	0.58	0.64	0.70	0.76	0.81	0.86	0.91	0.96	0.99	0.99
Buffalo, N. Y.....	5	7.25 a.m.	10.10 a.m.	0.70	8.05 a.m.	8.25 a.m.	0.03	0.12	0.32	0.46	0.52	0.58	0.64	0.70	0.76	0.81	0.86	0.91	0.96	0.99	0.99
Cairo, Ill.....	5	3.50 p.m.	5.40 p.m.	0.53	4.44 p.m.	5.04 p.m.	0.06	0.17	0.35	0.45	0.47	0.53	0.58	0.64	0.70	0.76	0.81	0.86	0.91	0.96	0.99
Charleston, S. C.....	3	1.02 p.m.	1.54 p.m.	0.42	1.02 p.m.	1.16 p.m.	0.00	0.17	0.32	0.42	0.48	0.53	0.58	0.64	0.70	0.76	0.81	0.86	0.91	0.96	0.99
Chicago, Ill.*.....	24	7.50 p.m.	11.45 p.m.	0.45	8.05 p.m.	8.25 p.m.	0.07	0.24	0.34	0.42	0.48	0.55	0.61	0.68	0.73	0.78	0.83	0.88	0.93	0.98	0.99
Cincinnati, Ohio.....	24	0.66	0.66	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.47	.....
Cleveland, Ohio.....	17-18	0.82	0.82	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.47	.....
Columbia, Mo.....	5-6	11.00 p.m.	D. N.	0.82	11.02 p.m.	11.15 p.m.	0.01	0.16	0.36	0.40	0.41	0.41	0.41	0.44	0.52	0.57	0.64	0.70	0.75	0.80	0.85
Columbus, Ohio.....	22	1.12	1.12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.12	.....
Denver, Colo.....	16	0.13	0.13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.12	.....
Des Moines, Iowa*.....	25-26	0.90	0.90	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.34	.....
Detroit, Mich.....	6	5.20 a.m.	10.00 a.m.	0.84	6.45 a.m.	7.17 a.m.	0.05	0.05	0.10	0.18	0.30	0.43	0.63	0.73	0.80	0.86	0.91	0.96	0.99	0.99	0.99
Dodge, Kans.....	16	1.43 p.m.	3.23 p.m.	0.94	1.50 p.m.	2.40 p.m.	0.05	0.15	0.30	0.32	0.33	0.34	0.35	0.40	0.60	0.75	0.82	0.88	0.93	0.99	0.99
Duluth, Minn.....	29	0.18	0.18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.17	.....
Eastport, Me.....	23	0.79	0.79	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.41	.....
Erie, Pa.....	6	8.53 a.m.	9.45 a.m.	0.52	9.00 a.m.	9.25 a.m.	T.	0.14	0.22	0.30	0.39	0.50	0.58	0.65	0.73	0.80	0.87	0.94	0.99	0.99	
Fresno, Cal.....	25-26	0.90	0.90	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.34	.....
Galveston, Tex.....	17	5.03 p.m.	11.26 p.m.	4.26	6.45 p.m.	7.55 p.m.	0.42	0.10	0.39	0.82	1.32	1.50	1.92	2.39	2.66	2.82	2.95	3.21	3.43	3.62	3.71
Hannibal, Mo.....	4	4.35 p.m.	6.10 p.m.	1.13	5.16 p.m.	5.32 p.m.	0.04	0.08	0.51	0.98	1.02	1.07	1.12	1.17	1.22	1.27	1.32	1.37	1.42	1.47	1.51
Do.....	5-6	10.00 p.m.	D. N.	1.26	10.30 p.m.	10.50 p.m.	0.10	0.13	0.36	0.64	0.74	0.79	0.85	0.89	0.94	0.98	1.02	1.06	1.10	1.14	1.18
Do.....	25	6.35 a.m.	8.10 a.m.	1.55	6.38 a.m.	7.20 a.m.	0.01	0.23	0.55	0.87	1.00	1.08	1.08	1.10	1.12	1.14	1.16	1.18	1.20	1.22	1.24
Harrisburg, Pa.....	26	11.35 a.m.	12.35 p.m.	1.35	12.35 p.m.	12.55 p.m.	0.01	0.17	0.42	0.52	0.58	0.64	0.70	0.76	0.82	0.88	0.94	0.98	1.02	1.06	1.10
Hatteras, N. C.....	23	0.45	0.45	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.32	.....
Huron, S. Dak.....	13	0.61	0.61	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.27	.....
Idaho Falls, Idaho.....	1	0.02	0.02	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.02	.....
Indianapolis, Ind.....	24	6.05 p.m.	7.59 p.m.	1.18	6.18 p.m.	6.28 p.m.	0.01	0.34	0.61	0.78	0.85	0.92	0.98	1.05	1.12	1.19	1.26	1.33	1.40	1.47	1.54
Jacksonville, Fla.....	8	11.50 a.m.	2.30 p.m.	0.97	11.57 a.m.	12.27 p.m.	0.02	0.08	0.24	0.45	0.57	0.65	0.71	0.75	0.81	0.86	0.91	0.96	1.01	1.06	1.11
Jupiter, Fla.....	26-27	7.10 a.m.	7.00 a.m.	1.07	9.10 p.m.	9.24 p.m.	0.17	0.06	0.30	0.58	0.64	0.70	0.76	0.82	0.88	0.94	0.99	1.04	1.09	1.14	1.19
Kansas City, Mo.....	5	9.53 p.m.	11.05 p.m.	1.40	10.00 p.m.	10.40 p.m.	T.	0.06	0.29	0.69	0.87	0.92	1.03	1.20	1.29	1.38	1.47	1.56	1.65	1.74	
Key West, Fla.....	1-2	9.10 p.m.	6.35 a.m.	0.81	1.50 a.m.	2.15 a.m.	0.18	0.08	0.36	0.53	0.56	0.72	0.78	0.84	0.90	0.96	1.02	1.08	1.14	1.20	1.26
Do.....	23	9.10 p.m.	10.05 p.m.	0.72	9.15 p.m.	9.35 p.m.	0.04	0.12	0.38	0.52	0.58	0.64	0.70	0.76	0.82	0.88	0.94	0.99	1.04	1.10	1.16
Knoxville, Tenn.....	2-3	6.45 p.m.	D. N.	5.07	10.18 a.m.	10.45 a.m.	0.24	0.24	0.38	0.50	0.56	0.62	0.68	0.74	0.80	0.86	0.92	0.98	1.04	1.10	1.16
Do.....	22	D. N.	12.25 p.m.	0.99	10.18 a.m.	10.45 a.m.	0.24	0.24	0.38	0.50	0.56	0.62	0.68	0.74	0.80	0.86	0.92	0.98	1.04	1.10	1.16
Lincoln, Nebr.....	12	1.00	1.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.13	.....
Little Rock, Ark.....	12	2.20 p.m.	11.20 p.m.	3.32	7.40 p.m.	9.20 p.m.	1.66	0.06	0.20	0.28	0.33	0.37	0.41	0.47	0.51	0.59	0.73	1.00	1.27	1.45	1.51
Do.....	15	8.15 a.m.	12.12 p.m.	2.01	8.30 a.m.	9.05 a.m.	0.06	0.36	0.69	0.85	1.08	1.27	1.53	1.62	1.66	1.68	1.71	1.74	1.77	1.80	1.83
Los Angeles, Cal.....	27	0.01	0.01	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.32	.....
Louisville, Ky.....	21-22	1.29	1.29	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.32	.....
Memphis, Tenn.....	6	0.67	0.67	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.19	.....
Milwaukee, Wis.....	22	9.33 p.m.	10.05 p.m.	1.51	9.57 p.m.	10.40 p.m.	0.00	0.10	0.16	0.31	0.43	0.66	0.67	0.71	0.76	0.81	0.86	0.91	0.96	1.01	1.06
Montgomery, Ala.....	10	0.54	0.54	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.20	.....
Nantucket, Mass.....	23	0.42	0.42	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.25	.....
Nashville, Tenn.....	21-22	3.00 a.m.	4.00 p.m.	1.88	11.35 p.m.	12.20 p.m.	0.78	0.05	0.11	0.17	0.21	0.26	0.36	0.41	0.50	0.55	0.58	0.69	0.81	0.91	0.99
New Orleans, La.....	9-10	10.45 p.m.	11.30 a.m.	2.41	9.32 a.m.	10.07 a.m.	0.02	0.17	0.30	0.43	0.62	0.69	0.82	1.00	1.09	1.12	1.13	1.17	1.46	1.74	1.84
Do.....	29	8.20 a.m.	2.15 p.m.	1.51	9.32 a.m.	10.07 a.m.	0.02	0.17	0.30	0.43	0.62	0.69	0.82	1.00	1.02	1.05	1.08	1.11	1.39	1.59	1.71
New York, N. Y.....	22-23	0.93	0.93	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.39	.....
Norfolk, Va.....	7	9.20 p.m.	11.50 p.m.	0.97	9.50 p.m.	10.20 p.m.	0.04	0.09	0.18	0.23	0.43	0.66	0.85	0.87	0.89	0.91	0.93	0.95	0.97	1.02	1.04
Do.....	23	1.30 a.m.	11.45 a.m.	1.97	6.00 a.m.	7.40 a.m.	0.30	0.08	0.17	0.25	0.33	0.40	0.47	0.55	0.63	0.71	0.78	0.85	0.92	1.14	1.30
Northfield, Vt.....	22-23	1.00</td																			

TABLE XI.—*Excessive precipitation, by stations, for September, 1898.*

Stations.	Monthly rainfall 10 inches, or more.	Rainfall 9.50 inches, or more, in 24 hours.		Rainfall of 1 inch, or more, in one hour.		
		Amt.	Day.	Amt.	Time.	Day.
<i>Alabama.</i>						
Daphne	Inches.	Inches.				
	14.86	3.00	30			
Mobile		5.38	20-21			
Do		5.00	29-30			
<i>Arkansas.</i>						
Beebranch		3.45	21			
Corning	11.08	2.71	11-12			
Do		5.43	28-30			
Fayetteville		2.65	12			
Fort Smith		3.07	11-12			
Hardy		2.66	21			
Hot Springs		4.23	29-30			
Jonesboro		2.88	20-21			
Keeses Ferry		3.52	11-12	1.16	1 05	12
Little Rock	10.23	3.52	11-12	1.16	1 05	12
Do				1.68	0 35	15
Lonoke		3.50	12			
Mena		3.24	12			
Mossville	10.50	3.41	11-12			
Mount Nebo		2.78	12			
Newport	14.19	4.44	12-13			
Ozark		2.75	12			
Pocahontas	11.34	4.34	12-13			
Do		3.25	29-30			
Pond		5.00	11-12			
Rison	11.75	3.00	12			
Do		3.00	20			
Silver Springs		2.50	11-12			
Warren		2.77	20-21			
Do		2.53	29-30			
Washington				1.96	1 30	6-7
<i>Florida.</i>						
Bartow		2.64	25			
Carrabelle		2.80	9			
Eustis		3.26	24			
Fort Meade		3.60	23			
Manatee	10.37					
Myers	10.73					
Pensacola	17.93	2.66	21	1.16	1 00	21
Do		11.35	28-30	1.31	1 00	29
Sebastian		4.43	21			
Tampa		3.21	25-26	1.00	0 28	25
Tarpon Springs	13.12	4.73	6	4.73	3 00	6
Do				1.44	0 50	20
<i>Georgia.</i>						
Adairsville		3.67	2			
Atlanta		3.26	1-2			
Canton		4.25	1-2			
Cartersville		4.20	1			
Clayton	11.34	4.70	2			
Dahlonega	12.08	9.46	1-3			
Diamond		4.47	2			
Elberton		2.68	2			
Gainesville		3.70	2			
Gillsville	10.13	6.61	1-2			
Greenbush	10.82	5.00	2			
Louisville		4.61	1			
Macon		3.10	7-8			
Marietta		6.07	1-3			
Millen		6.40	*			
Ramsey		3.69	2			
Rome		2.80	7			
Thomasville						
Toccoa	11.98	4.30	1-2	1.46	0 59	23
Waynesboro		4.65	*			
<i>Illinois.</i>						
Cairo		4.58	+			
Coatesburg		2.62	22			
Cobden				1.06	0 28	5
Decatur		2.54	4			
Henry		2.75	21-22			
Laharpe		2.50	22			
Palestine		3.33	25			
Philo						
Robinson	10.09	5.10	25			
<i>Indiana.</i>						
Angola				2.00	1 30	24
Bright				2.00	2 00	22
Greensburg						
Indianapolis		3.41	24-25			
Rockville		3.00	4			
Shelbyville		3.15	24			
Terre Haute		3.11	4 5			
Warsaw		2.50	6			
Washington		3.37	24			
<i>Indian Territory.</i>						
Webbers Falls		5.91	10-11			
<i>Iowa.</i>						
Belleplaine		3.50	5			
Carroll		2.89	4-5	2.14	1 40	4
Keokuk		2.73	4			
Toledo						
Webster City				1.00	1 00	4
<i>Kansas.</i>						
Altoona		5.83	11-12			
Burlington		2.68	12			
Chanute		6.06	10-12			
Dresden		3.43	11-12			
Fanning		4.71	5			
Fort Scott		2.90	12			
Independence		3.96	11			

TABLE XI.—*Excessive precipitation—Continued.*

Stations.	Monthly rainfall 10 inches, or more.	Rainfall 2.50 inches, or more, in 24 hours.		Rainfall of 1 inch, or more, in one hour.	
		Amt.	Day.	Amt.	Day.
<i>Kansas—Continued.</i>					
Lebo	Inches.	3.51	12	Ins.	h.m.
Macksville		2.85	12		
Morantown		2.70	12		
Oberlin		2.90	12		
Osage City		3.38	12		
Sedan		2.62	11-12		
Topeka		3.41	12		
Toronto					
<i>Kentucky.</i>					
Blandville		4.08	29-30		
Carrollton		2.80	4		
Eubank		2.70	27		
Shelby City				2.40	0 50
<i>Louisiana.</i>					
Abbeville		2.80	19-20		
Do		4.20	28-29		
Alexandria		2.97	28-30		
Amite		2.65	19-20		
Baton Rouge		4.04	19		
Cheneville		10.10	7.50	30	
Clinton		3.08	20		
Do		2.66	29		
Como		11.68	5.20	19-20	
Do		2.99	29-30		
Covington		14.65	5.90	29-30	
Donaldsonville		14.20	2.85	11	
Do		6.25	19-20		
Elm Hall		15.65	2.50	29	
Do		3.20	11		
Emilie		16.42	4.92	10-11	
Do		7.56	19-20		
Franklin		17.46	8.02	19	
Do		5.33	29		
Grand Coteau				4.96	28-29
Hammond		11.65	4.36	20	
Do		4.20	29		
Houma		18.70	9.30	9-12	
Do		5.60	28-30		
Jeanerette		15.06	5.35	18-19	
Do		6.36	28-29		
Jennings		13.85	9.05	28-29	
Lafayette		12.20	2.83	20	
Do		5.55	29-30		
Lake Providence				2.95	20
Lawrence		15.29	8.25	9-11	
Mansfield				3.30	12
Melville				3.10	20-21
Do				3.65	29-30
Monroe				2.60	30
New Iberia				3.75	19
New Orleans		13.90	3.01	9-10	1.60
Do		2.77	11-12		
Paincourtville		17.59	8.30	19-20	
Do		2.96	28-29		
Plaquemine		10.74	4.19	20	
Port Eads		18.44	4.75	9-10	
Do		3.92	27-28		
Rayne		14.90	8.31	30	
Schriever		11.57			
Shellbeach		11.00	2.60	19	
Do		7.02	28-29		
Shreveport				4.14	11-12
Southern University		15.00	3.00	9	
Sugar Experiment Station		19.55	10.72	9-11	
Do		2.93	29		
Venice		14.47	5.27	9-10	
Do		2.85	28		
Wallace		16.81	3.87	11	
Do		6.93	19-20		
Do		3.95	28-29		
White Sulphur Springs		13.75	6.25	12	
Do		3.50	19-20		
Do		3.75	28-29		
<i>Maryland.</i>					
Jewell				2.50	22-23
<i>Michigan.</i>					
Alma				2.58	22-23
Mount Clemens				2.70	6
South Haven				2.92	15
<i>Mississippi.</i>					
Agricultural College				5.00	20-21
Bay St. Louis		12.98	3.68	11	
Do		2.77	29		
Biloxi		21.76	5.03	20-21	
Do		6.75	29-30		
Briars				2.91	30
Columbus				2.57	21
Edwards				3.50	20
Fayette				4.25	20-21
Greenville				2.70	20-21
Leakesville				3.45	28-29
Logtown				17.85	2.90
Do				4.93	28-29
Louisville				2.57	21
Macon				4.20	21
Magnolia				2.62	19-20
Do				3.35	28-29
Natchez				2.65	21

TABLE XI.—*Excessive precipitation*.—Continued.

Stations.	Monthly rainfall 10 inches, or more.	Rainfall 2.50 inches, or more, in 24 hours.		Rainfall of 1 inch, or more, in one hour.	
		Amt.	Day.	Amt.	Time.
<i>Mississippi</i> —Continued.					
Port Gibson	Inches.	4.48	20-21	Ins.	h.m.
Vicksburg		3.90	19-20	1.42	0 25
<i>Missouri</i> .					
Appleton City		2.60	10-11		
Arthur		3.35	10-11		
Bethany		3.00	5	1.35	1 00
Bolckow		3.00	6-7		
Carrolton		3.28	12		
Cowgill		6.85	4-5		
Fairport		10.50			
Gallatin		4.73	4-5		
Halfway		2.65	12		
Hannibal				1.02	0 18
Do.				1.00	0 55
Do.				0 43	25
Houstonia		2.80	5-6		
Do.		3.01	12		
Irena		2.95	5		
Kansas City		3.06	5-6	1.29	0 37
Kidder		2.50	10-11		
Lamar		3.65	11-12		
Lamonte		2.78	6		
Lexington		2.53	12		
Do.		2.72	6		
Liberty		2.50	12		
Marshall		3.38	5-6		
Maryville		4.50	10-11		
Neosho		3.12	10-11		
Nevada		4.18	29-30		
New Madrid		3.01	21		
Olden		10.01	3-7		
Oregon		10.72	8.00	11-12	
Osceola		2.88	5		
Platte River		3.20	30		
Poplar Bluff		10.20	2.63		
Princeton		2.89	11-12		
Do.		3.30	4-5		
St. Joseph		3.80	10-11		
Sarcoxie		2.88	11-12		
Springfield		2.81	16		
Stellada		14.67	5.00	4-5	
Sublett		4.10	12-13		
Do.		5.72	10-12		
Wheatland	<i>Nebraska</i> .				
Culbertson		2.73	11		
Dawson		3.70	5	2.95	1 15
Eden		2.50	5		
Fairbury				1.25	1 00
Holdrege				1.50	0 20
Imperial		3.32	11		
Redcloud		2.55	9-10		
Rulo		5.39	5-6	1.49	1 00
Do.				3.90	2 30
Salem		3.10	6		
Stratton		2.75	11		
Tablerock		3.20	5	3.20	2 00
Wauneta		3.04	10		
<i>New Hampshire</i> .					
Concord		2.95	23-24	1.52	1 00
Hanover		2.70	24		
Stratford		2.70	23-24		
<i>New Jersey</i> .					
Plainfield				1.08	0 15
Toms River		2.56	22-23		
<i>New York</i> .					
Auburn		3.25	6-7		
Binghamton				1.01	0 35
Catskill				1.40	1 00
Dekalb Junction		2.61	7		
Fleming				1.10	1 00
Ithaca				1.20	0 90
<i>North Carolina</i> .					
Abshers		7.01	22-23		
Biltmore		3.26	21		
Bryson City		4.95	23		
Chapelhill		3.00	22-23		
Flatrock		5.75	22		
Hendersonville		2.96	22		
Horsecove		4.58	21-22		
Lenoir		6.00	21-22		
Linville		7.57	22-23		
Louisburg		2.90	23	2.90	2 00
					23

TABLE XI.—*Excessive precipitation*.—Continued.

Stations.	Monthly rainfall 10 inches, or more.	Rainfall 2.50 inches, or more, in 24 hours.		Rainfall of 1 inch, or more, in one hour.	
		Amt.	Day.	Amt.	Time.
<i>North Carolina</i> —Continued.					
Lumberton	Inches.	3.80		8-9	
Mana		2.82		21-22	
Marion		6.78			
Monroe		2.50		7-8	
Morganton		3.25		22	
Mountairy		6.02			
Murphy		5.73		2-3	
Oakridge		2.79		22-23	
Pantego		2.60		23	
Patterson		8.00		22	
Saxon		3.88		22	
<i>Ohio</i> .					
Bellefontaine	Inches.			1.00	0 50
Cleveland (a)				1.05	0 45
Killbuck				1.95	1 30
Montpelier				1.50	0 40
Tiffin		2.69		4	
<i>Oregon</i> .					
Glenora	Inches.	3.00		21	
<i>Pennsylvania</i> .					
Cedarrun				1.50	1 00
Warren				1.38	1 00
<i>South Carolina</i> .					
Allendale		7.45		*	
Central		2.70			
Conway		9.05		21-22	
Gaffney City		8.95		23-23	
Greenville		3.83		21-22	
Holland		3.00		1	
Mount Carmel		10.64		1-2	
Smiths Mills		5.00		21-22	
Trentou		4.50		*	
Yemassee		7.30		*	
<i>Tennessee</i> .					
Benton		2.65		2-3	
Bristol		3.62		3	
Chattanooga		4.30		1-2	
Clinton		3.66		2-3	
Decatur		2.75		1-2	
Elk Valley		2.52		4-5	
Harriman		2.53		2-3	
Kingston		4.65		2-3	
Knoxville		5.68		2-3	4 08
Lynnville		2.60		21-22	
Maryville		4.34		2-3	
Memphis		2.57		29-30	
Newport		2.66		2-3	
Oakhill					1.15
Sewanee		3.30		2	
Tracy City		2.59		22	
<i>Texas</i> .					
Alvin					
Arthur City		2.70		11	
Ballinger		2.62		19	
Galveston		4.82		17-18	3.92
Jacksonville					1.05
<i>Virginia</i> .					
Bedford		3.47		22	
Burkes Garden		2.93			
Charlottesville		2.88		22-23	
Clarksville					
Clifton Forge		3.10		22	
Farmville		2.91		22-23	
Lynchburg		4.16		22-23	
Richmond					1.16
Rockymount		3.35		23	
Standardsville		2.55		22-23	
Tobaccoville		3.74		22-23	
Wytheville		4.06		3	
<i>West Virginia</i> .					
Elkhorn					2.17
<i>Wisconsin</i> .					
Green Bay					1.00
<i>West Indies</i> .					
Basseterre		12.37		7.23	12-13
Do.				1.10	0 20
Do.				1.39	0 25
Bridgetown		19.73		8.49	10-11
Do.				3.04	11-12
Do.				3.06	20-21
				2.69	1 40
					21

* August 31 to September 1.

† September 30 to October 1.